Vacuum moulding | Vacuum infusion & Infujection | Reusable silicone membranes

RTM & RTM Light | Vacuum equipment | ZYVAX® release agents

Kitting service | Equipment maintenance | Composite training center

COMPOSITE DIVISION

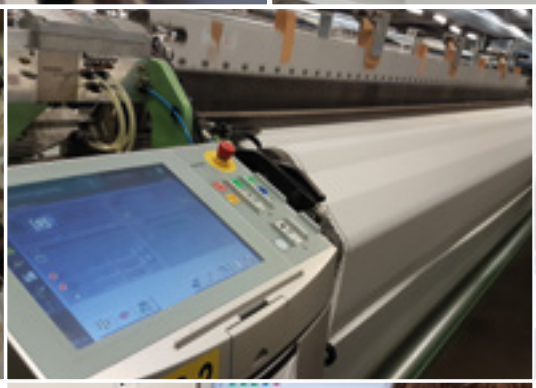
Index H

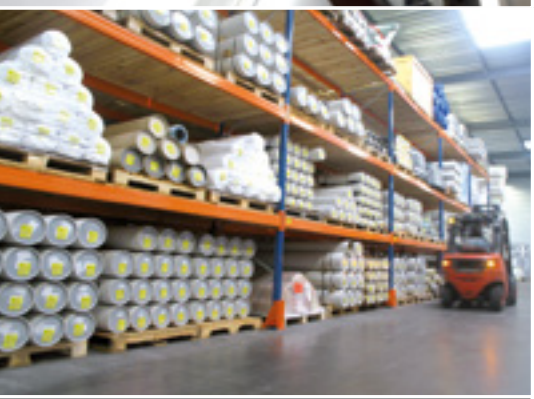
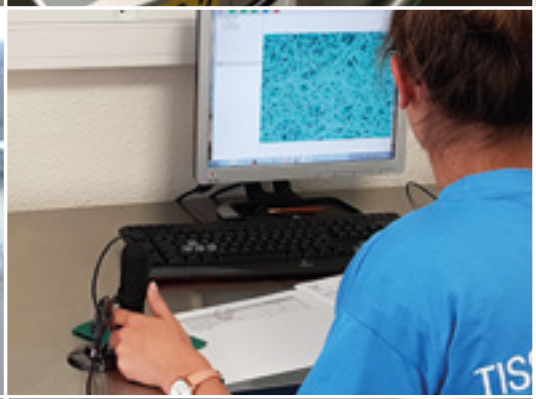
DIATEX

COMPOSITE PROCESS MATERIALS









TECHNOLOGY, SKILLS AND QUALITY SINCE 1986

Based near Lyon, France, DIATEX is specialized in technical fabrics and supplies all types of bagging materials used in vacuum moulding, vacuum infusion, RTM and RTM Light processes in composite-parts production. DIATEX set up its production site in the Auvergne-Rhône-Alpes region, at the heart of the textile industry, to facilitate close quality control from start to finish. Thus DIATEX ensures appropriate standards at each and every stage of the production of its technical peel-ply fabrics.

Synergy of subsidiaries : at the core of development

DIATEX works in close collaboration with its technical textile and textile finishing subsidiaries to design new products in the aim of facilitating the work of composite material transformers. As requested by its customers, DIATEX and its partners draw up specifications which define and optimize the technical features of their products.
Concerned about environmental protection issues and the health of product users, DIATEX is moving increasingly into the framework known as «Eco Design» to meet customers requirements. The aim is to manufacture a range of bagging materials as ecologically harmless for humans in accordance with REACH standards and Oeko Tex Certification.

Technical support based on innovating processes

DIATEX's success is founded on a thorough knowledge of its customers' needs and an innovative approach towards the development and manufacture of products that make their jobs easier. As a result, productivity is increased and storage costs are reduced for customers.

Dedicated to quality is more than a commitment

As formal evidence of its commitment to professional quality management, DIATEX has successfully completed its follow-up audit for the updated ISO9001:2008 and EN9100:2009 certifications, placing it among the leading certified suppliers to the aerospace industry.

OUR PARTNERS

TDM TISSAGES DES MÛRES

AEROFORM COMPOSITES
Aeronautics Curing Solutions

COMPOSITE INTEGRATION ltd

MIL'S

Flexz

ZYVAX
A Chem-Trend Brand

CERTIFICATIONS

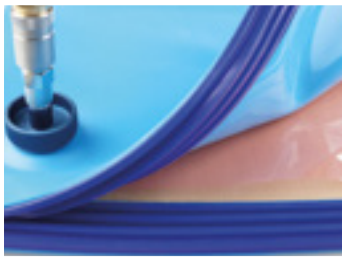
BUREAU VERITAS Certification
EN 9100
ISO 9001

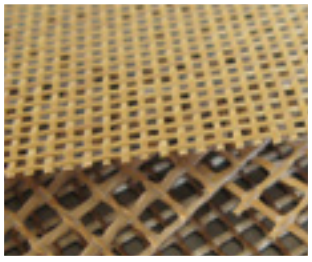
Aerospace & Defense CERTIFICATIONS

OEKO TEX® STANDARD 100

OEKO TEX® STANDARD 100

REUSABLE
SILICONE
MEMBRANES

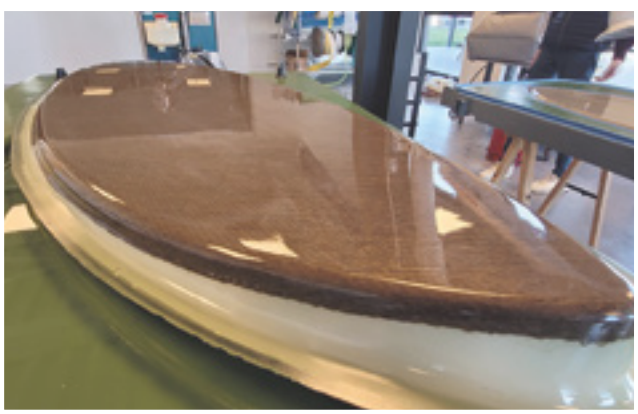


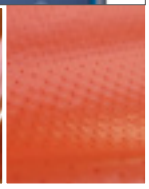


VACUUM MOULDING

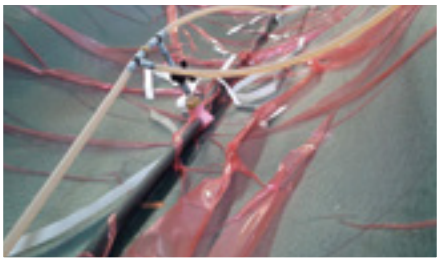
RTM
LIGHT RTM

COMPOSITE PROCESS MATERIALS





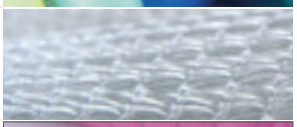
VACUUM INFUSION



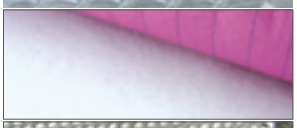
Bagging films

Multilayer systems
for vacuum infusion

Net bleeders for infusion



Multilayer systems
for vacuum moulding

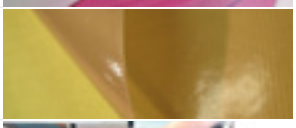


Bleeders & breathers
| Glass tapes

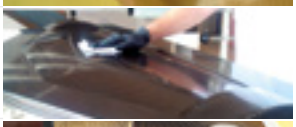
Release films

Peel plies

Release interfaces



Release agents



Sealant tapes

Flash tapes

Thermoshrinkable fabrics & films

Reusable silicone membranes
| Ancillaries

Vacuum equipment
| Resin catchpots

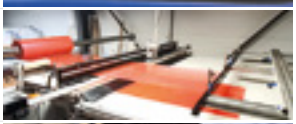
Pipes & hoses

Vacuum infusion ancillaries

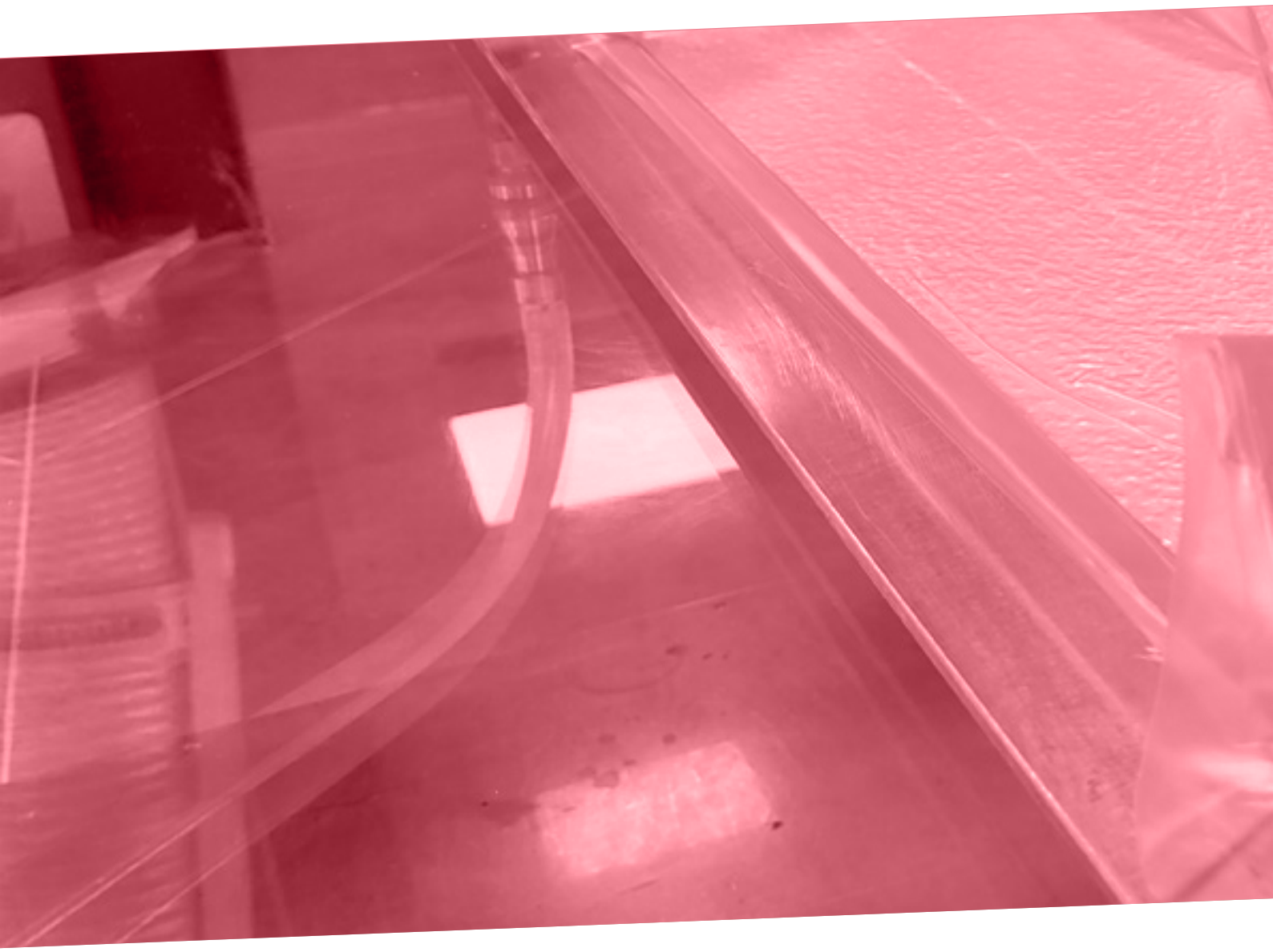
Vacuum moulding ancillaries

RTM ancillaries

Bespoke | Kitting & Welding service



Equipment maintenance | Training center | Support

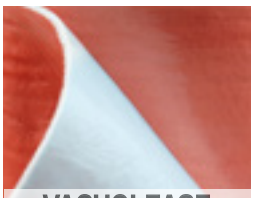


VACUUM MOULDING

DIATEX designed a specific range of bagging materials for prepregs and hand lay-up composite materials with vacuum polymerization.
The success of DIATEX is based on the manufacture of innovating products, such as **Vacuopeel®**, **Vacuoplex®** and **Vacuolease®**, whose purpose is to facilitate the application of environmental products by users during drape moulding operations.
DIATEX also offers all standard environmental products as well as the equipment which is used in this manufacture process in compliance with our quality systems (EN 9100 v 2009 - ISO 9001 v 2008 - Bureau Veritas).

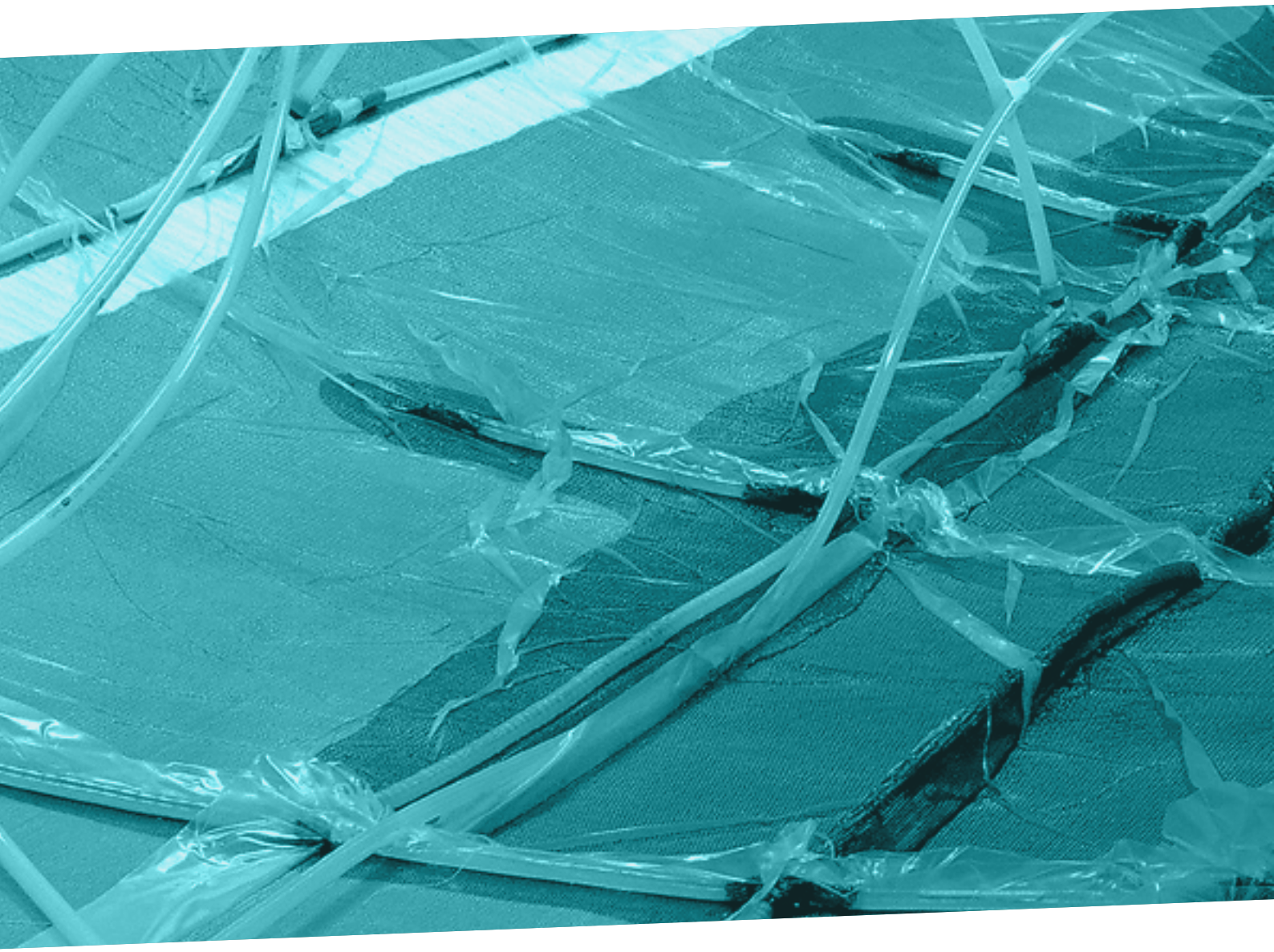
VACUOPLEX

VACUOPEEL



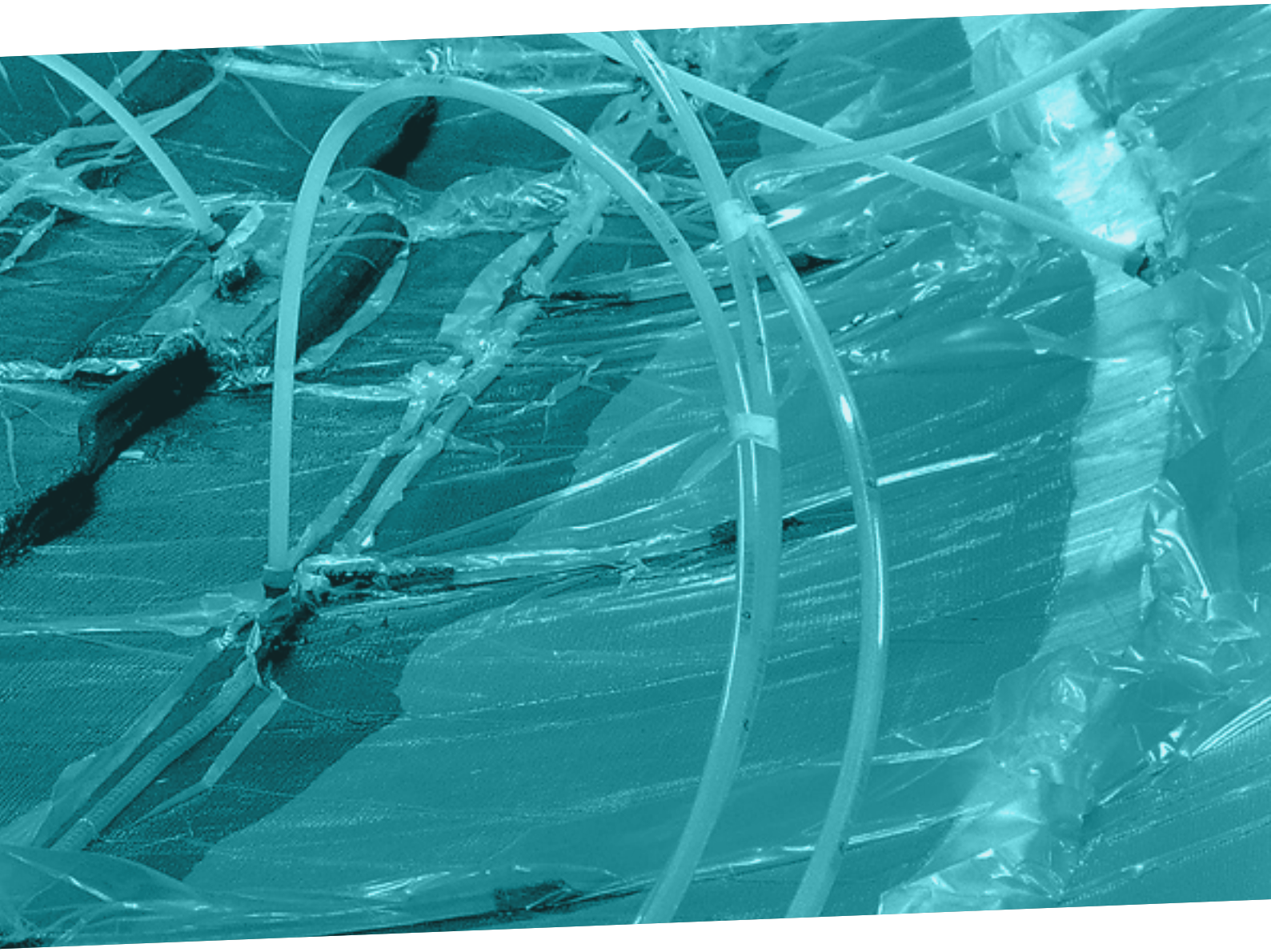
VACUOLEASE

VACUOPLEX MP



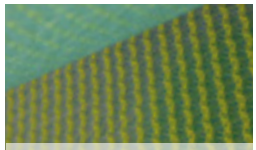
VACUUM INFUSION & INFUJECTION

DIATEX designed a range of bagging materials for vacuum infusion, a transformation process often used in boat industry and wind turbine sector.
Positioned at the forefront of technology, **DIATEX** is constantly developing new solutions to increase the productivity of market operators. **DIATEX** **INFUPLEX®** multilayer system combining a flow media and a release film is a perfect demonstration of innovation.
DIATEX provides a whole range of ecological products and vacuum equipment required in infusion process in compliance with our quality system (EN 9100 v 2009 - ISO 9001 v 2008 - Bureau Veritas).

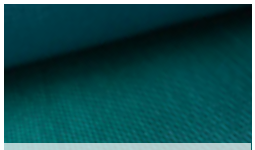


INFUPLEX
ISONET

INFUPLEX
ISONET Quadrille



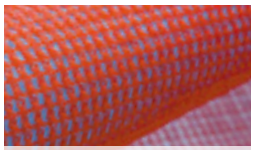
INFUPLEX
FLONET



INFUPLEX
OM70

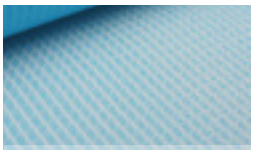
INFUPLEX
OM70 Quadrille

INFUPLEX
OM70 PA



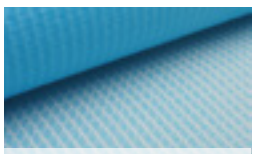
INFUPLEX
FASTNET

INFUPLEX
FASTNET Quadrille



INFUPLEX
DIANET 135

INFUPLEX
DIANET 135 Quad.

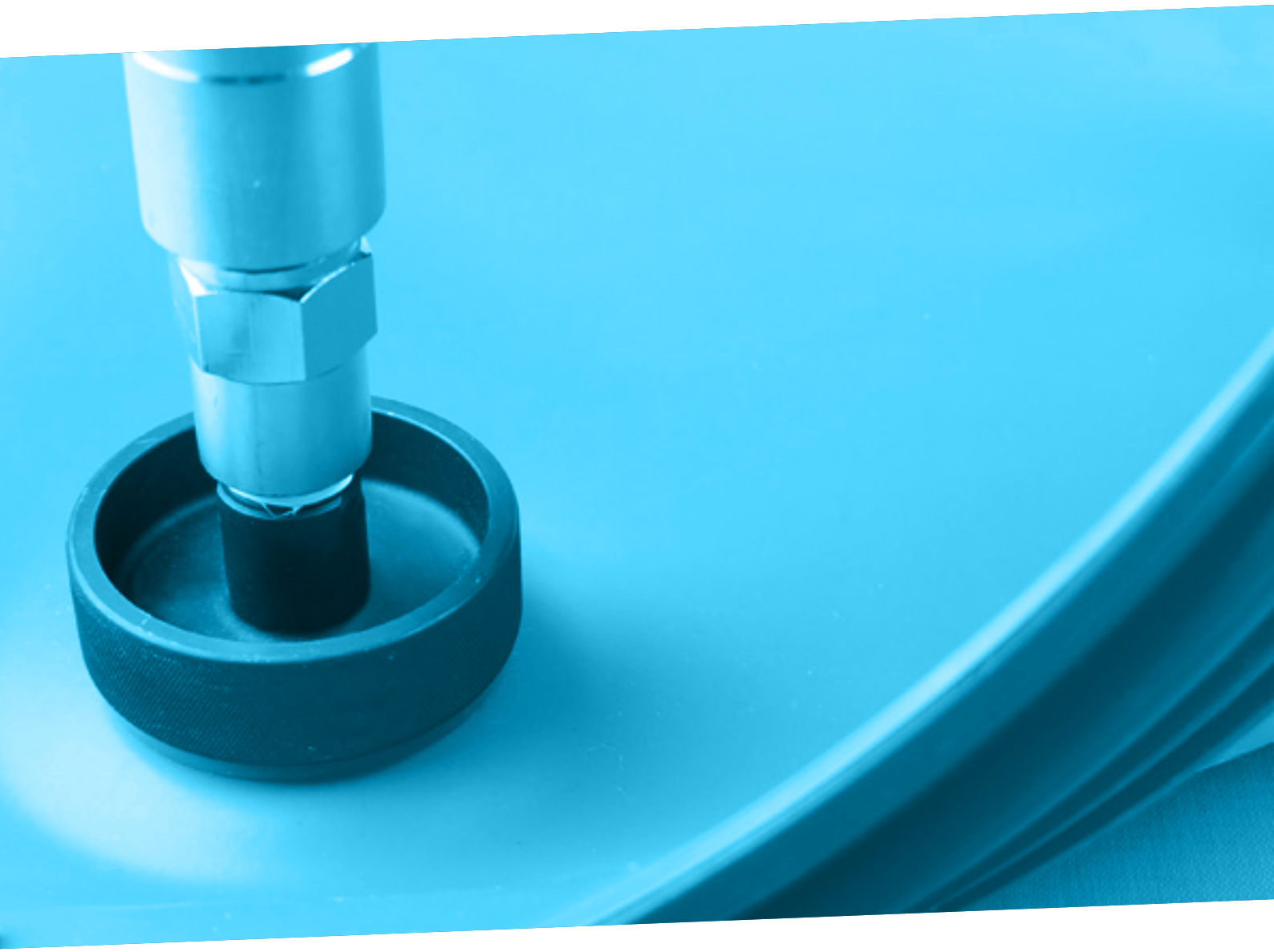


INFUPLEX
DIANET PA

INFUPEEL
DIANET PES90

INFUPEEL
DIANET PA80

INFUPEEL
DIANET PES107



REUSABLE SILICONE MEMBRANES

DIATEX provides a complete range of reusable membranes for infusion, debulking and vacuum moulding in ovens or autoclaves. This range is composed of RTV silicone spray, vulcanized or raw HTV silicone rolls and rubber.

DIATEX is able to manufacture silicone tools :

- Sprayable silicone 49 shore for autoclave (DIASIL 49)
- Silicone tools for infusion (DIASIL 20)
- Silicone zipped bags (DIASILBAG)
- Silicone tools on metal or carbon frame, inflatable bladders
- Heat-vulcanizable silicone in autoclave

Applications

Bagging films

«Copolymer» films
«Polyamides» films
«Technical» films

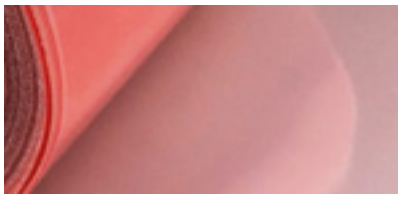
Bagging films

p.109

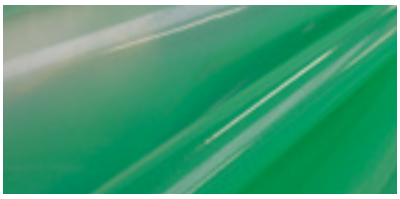
CONFECTION & KITTING

DIATEX provides a wide range of bagging films for vacuum moulding and vacuum infusion.

PA205 HF is a carved bagging film for the vacuum moulding of composite parts. Its 3D structure provides a perfect vacuum compacting and allows to take out the bleeder for compaction or vacuum moulding combinated to our Microporous peel ply. PA205 HF is a green bagging film as it enables using less peripheral device.



The nylon bagging film **PO180** reduces waste. Used for vacuum moulding, it is available in lay-flat tubing and sheet, in 50 µ or 75 µ.



PO120 is mainly recommended for vacuum infusion of composite materials with advanced shapes.

Bagging films range

		VACUUM ELONGATION	AUTO-RELEASE	USE WITH RESIN *	PROCESS		
	PO120	120 °C	400 %	YES	E I P I VE I EL	•		•
	DIABAG 80	135 °C	750 %	-	E I PH I EL	•	•	
	PO150 XD2	145 °C	1000 %	YES	E I PH I EL	•	•	
	PO150 YJ	150 °C	400 %	YES	E I P I VE I PH	•	•	•
	PO160 TUBE	160 °C	350 %	YES	E I PH	•	•	•
	PO175	177 °C	365 %	YES	E I P I VE I EL	•		•
	DIABAG 80 HT2	180 °C	650 %	-	E I PH I EL	•	•	
	PO180	180 °C	360 %	YES	E I P I VE I PH I EL	•	•	•
	PO180 TUBE	180 °C	360 %	YES	E I P I VE I PH I EL	•	•	•
	PA205	205 °C	Low	YES	E I P I VE I EL	•	•	•
	PA205 TUBE	205 °C	Low	YES	E I P I VE I EL	•	•	•
NEW	**PA205 MAX**	205 °C	Low	YES	E I P I VE I EL I PH	•	•	•
NEW	**PA205 MAX TUBE**	205 °C	Low	YES	E I P I VE I EL I PH	•	•	•
	PA205 HF	205 °C	Low	YES	E I P I VE I EL	•	•	
	PA232	232 °C	Low	YES	E I P I VE I EL	•	•	•
	PTFE260	260 °C	Low	YES	E I P I VE I PH I EL	•	•	
	POLYIMIDE	400 °C	Low	YES	TP	•	•	
	POLYIMIDE HM	400 °C	Low	YES	TP	•	•	

* E = Epoxy I P = Polyester I VE = Vinylester I PH = Phenolic I EL = Elastomere I TP = Thermoplastic

Oven · High pressure autoclave · Vacuum infusion

«Copolymer» films

Bagging films advantages expected by professionals in composite: flexibility, mechanical and temperature resistance, airtight.

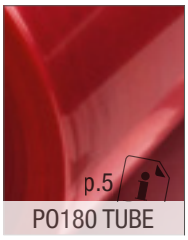
PO120

PO150YJ

PO160 TUBE

PO175

PO180



PO180 TUBE

«Polyamide»films

Used in high temperature applications, polyamide films offer excellent mechanical strength and are compatible with autoclave processes.

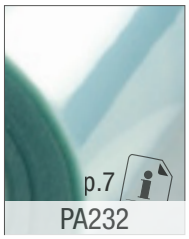
PA205

PA205 TUBE

PA 205 MAX

PA205 MAX TUBE

PA 205 HF



PA232

«Technical» films

Diatex offers a range of very high elongation films, to save time during vacuum moulding process, as well as films resistant to very high temperatures.

High elongation

PO150 XD2

DIABAG80

DIABAG 80 HT2

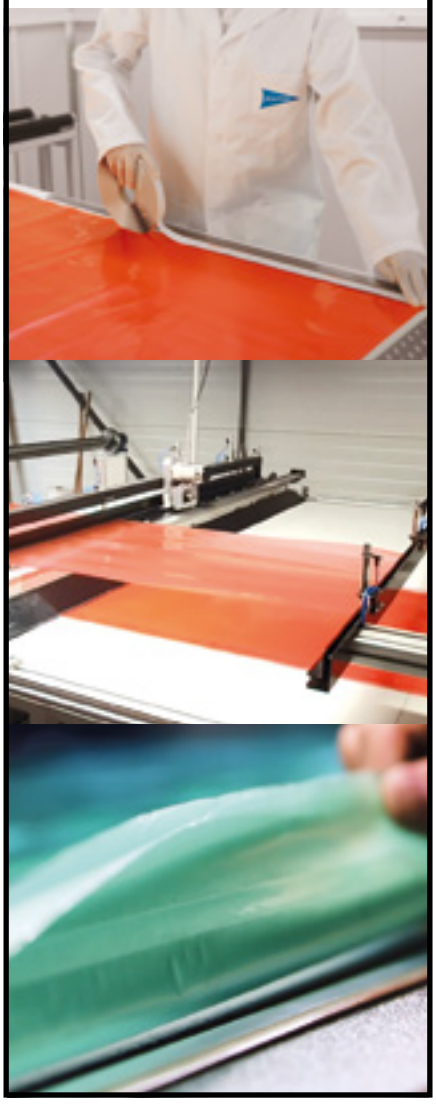
Very high temperatures

PTFE260

POLYIMIDE

POLYIMIDE HM

Kitting & welding



P0120

XXL copolymer bagging film

Extra large extruded advanced copolymer vacuum film. This film behaves 3 layers: 2 auto-release copolymer layers and one polyamide layer in the middle.

Can be used for either vacuum moulding or vacuum infusion technologies.
P0120 allows the moulding of complex forms

+

Exceptional conformable characteristics.
Can be used in direct contact to the resin.
Styrene resistant film. Non porous.

GREEN

1.20 I 1.50 I 2 I 4 I 6 I 8 I 10 m	+/- 800 m²	75 µ	Max. 120 °C
12 I 16 m	75 m	80 µ	
20 I 24 I 28 I 32 m	Upon request	80 µ	

P0150 YJ

Low temperature copolymer bagging film

Extruded advanced copolymer vacuum bagging film.
3 layers film: 2 polyamide layers and one PE layer in the middle.

Mainly recommended for prepregs up to 120°C.

+

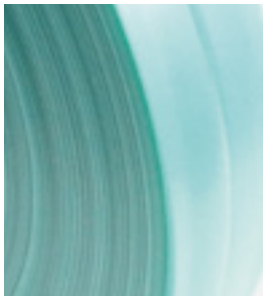
Styrene resistant film.
Non porous.
Available in wide width.
Release with polyester, epoxy, PU and phenolic resins.

YELLOW

1.50 m	185 m	65 µ	Max. 150 °C
2.80 m	216 m		
4.57 m	170 m		

P0160 TUBE

Release lay-flat tube bagging film



Multilayer extruded nylon bagging film

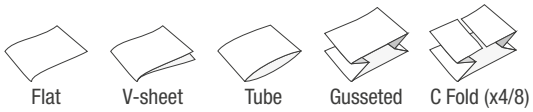
Designed for processing of hollow advanced composite structures where easy removal of the bag after curing is required in order to avoid damage of the part.

+

Self release.
Compatible with phenolic and epoxy prepregs.

GREEN

86 I 100 I 125 I 150 I 200 I 250 I 300 I 350 I 400 I 450 I 600 I 800 mm	200 m	70 µ	Max. 160 °C



PO175

Copolymer bagging film

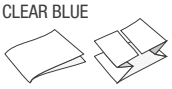
Tough & high temperature resistant co extruded nylon based material (providing multiple layers of safety)

Designed for use in the production of advanced composite structures such as wind turbine blades and nacelles, boat hulls and decks, plus other larger industrial structures.

+

Perfect for use in both resin infusion and prepreg moulding applications.
Resistant to all commonly used resin systems.

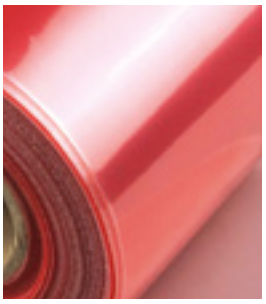
CLEAR BLUE



	4 I 6 I 8 I 10 I 12 m	+/- 900 m²	65 I 75 100 µ	Max. 177 °C

PO 180

Copolymer bagging film



Advanced polyamide copolymer bagging film and multilayer extruded film providing multiple layers of safety.

Can be used for either vacuum moulding or vacuum infusion technologies with epoxy or polyester.

+

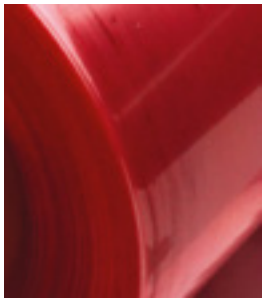
High elongation.
Non porous.
Compatible with all resins.

RED

	1.5 I 2 I 3 I 4 I 6 m	+/- 800 m²	50 I 75 µ	Max. 180 °C

PO180 TUBE

Copolymer lay flat tube bagging film



Advanced copolymer flexible bagging film made in lay flat tube form. PO180T is a multilayer extruded polyamide film providing multiple layers of safety.

Perfect for small tools.
It can be also used for processing of laminated security glass.

+

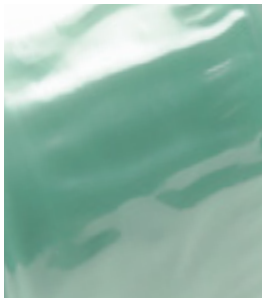
Excellent heat stability.
Non porous.
Compatible with all resins.

RED

	0.15 I 0.20 I 0.30 I 0.46 I 0.60 I 0.80 I 0.90 I 1.20 I 1.50 I 1.80 m I 2 m	200 m	50 µ	Max. 180 °C
	0.31 I 0.60 I 0.80 I 0.90 I 1.20 I 1.50 I 2 m		75 µ	

PA205

High temperature bagging film



Cast polyamide vacuum film.

GREEN

Recommended for advanced composite fabrication.

+

Excellent heat stability.
Non porous.
Styrene resistant film.

0.80 I 1.55 I 1.80 I 2.00 I 2.20 I 2.70 I 4.57 m 1.00 I 1.60 m	250 m	50 µ 75 µ	Max. 205 °C

PA205 TUBE

High temperature lay-flat tube bagging film

Film designed for manufacturing hollow or small parts.

GREEN

Recommended for advanced composite fabrication.

+

Good heat stability.
Non porous.

25 I 40 I 50 I 75 I 100 I 150 I 600 I 900 I 1500 mm	250 m	50 µ	Max. 205 °C

PA205 MAX

High temperature bagging film

High-performance polyamide vacuum bagging film

PURPLE

Productivity gains for complex parts

+

Pleasant to work with
Resistant to aggressive resins (Epoxy and Phenolic)

1.50 I 3 m	250 m	50 µ	Max. 205 °C

Flat V-sheet Tube Gusseted C Fold (x4/8)

PA205 MAX TUBE

High temperature bagging film

High-performance polyamide vacuum bagging film

Productivity gains for complex parts

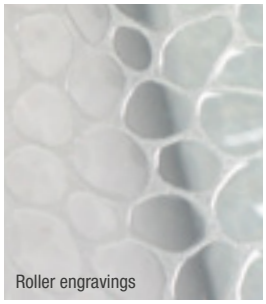
+ Pleasant to work with
Resistant to aggressive resins (Epoxy and Phenolic)

1.50 m	250 m	50 µ	Max. 205 °C

PURPLE

PA205 HF

Embossed nylon bagging film



Embossed polyamide & High Flow bagging film.
The structure allows a good resin or air flow. PA205HF replaces both net bleeder and breather.

Recommended for advanced composite manufactured under vacuum moulding.
Perfect for debulking operation.

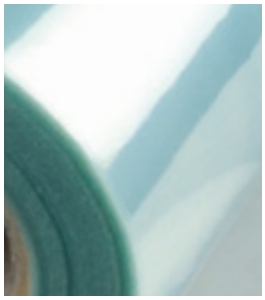
+ Excellent heat stability.
Styrene resistant film.

1.60 m	125 m	75 µ 430 µ (rollers)	Max. 205 °C

TRANSPARENT

PA232

Very high temperature bagging film



Designed for the production of advanced composite structures.
Recommended for high temperature process.

Increase in productivity for the production of small and medium series parts.

+ Easy to implement.
Very good temperature resistance up to 232°C.
Very good mechanical properties.

1.55 I 1.80 I 2.20 I 2.90 I 3.10 m	250 m	50 I 75 µ	Max. 232 °C

GREEN

P0150 XD2

High elongation release bagging film

High performance film designed for the production of hollow composite structures.
Non recommended for infusion process.

Easy to implement.

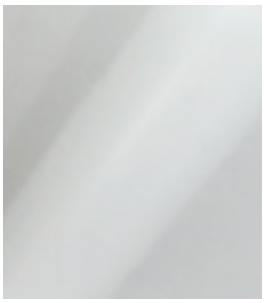
+ Good temperature resistance.
Time and material savings.
The deformabbility of the film limits the need of pleats.
Self-release with polyester, epoxy, PU and phenolic resins.

TRANSPARENT

1.75 I 3.50 m	100 m	80 µ	Max. 145 °C

DIABAG 80

High elongation bagging film



This very high elongation film has been designed for the production of hollow composite structures. To be used mainly with epoxy resin.

Easy to implement.

+ Remarkable elasticity.
+60% efficiency compare to standard films.
Good tear resistance.

TRANSLUCENT

1.7 I 3.40 m	100 m	80 µ	Max. 135 °C

DIABAG80 HT2

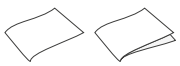
High elongation bagging film

DIABAG 80 HT2 is a high elongation extruded advanced copolymer vacuum film with exceptional conformable characteristics, particularly when applied to awkward shapes with deep recesses or undercuts. It permits the moulding of complex forms.

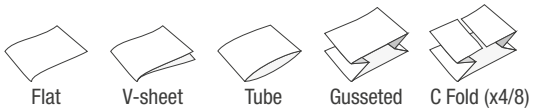
Recommended for epoxy resin systems for composite & elastomeric processes.

+ Very high mechanical and thermal resistance

TRANSLUCENT



1.5 I 3 m	100 m	80 µ	Max. 180 °C



Flat V-sheet Tube Gusseted C Fold (x4/8)

PTFE260

Very high temperature & release bagging film

NATURAL

PTFE260 belongs to the polytetrafluoroethylene family.
It is a high temperature and high elongation release bagging film suitable for high temperature cure cycles.

Recommended for advanced composite and elastomer fabrication.

\+ Good elongation and mechanical characteristics.
Release film with all resins and elastomers.

1.22 I 1.422 m	82 m	75 µ	Max. 260 °C

POLYIMIDE

Very high temperature bagging film

ORANGE

Polyimide film recommended for production of advanced composite structures under high temperatures. Perfect for simple shapes.

Recommended for high performance composites or thermoplastics.

\+ Excellent heat stability.
Non porous.

1.57 m	57 I 166 m	25 I 50 I 75 µ	Max. 400 °C

POLYIMIDE HM

High performance bagging film

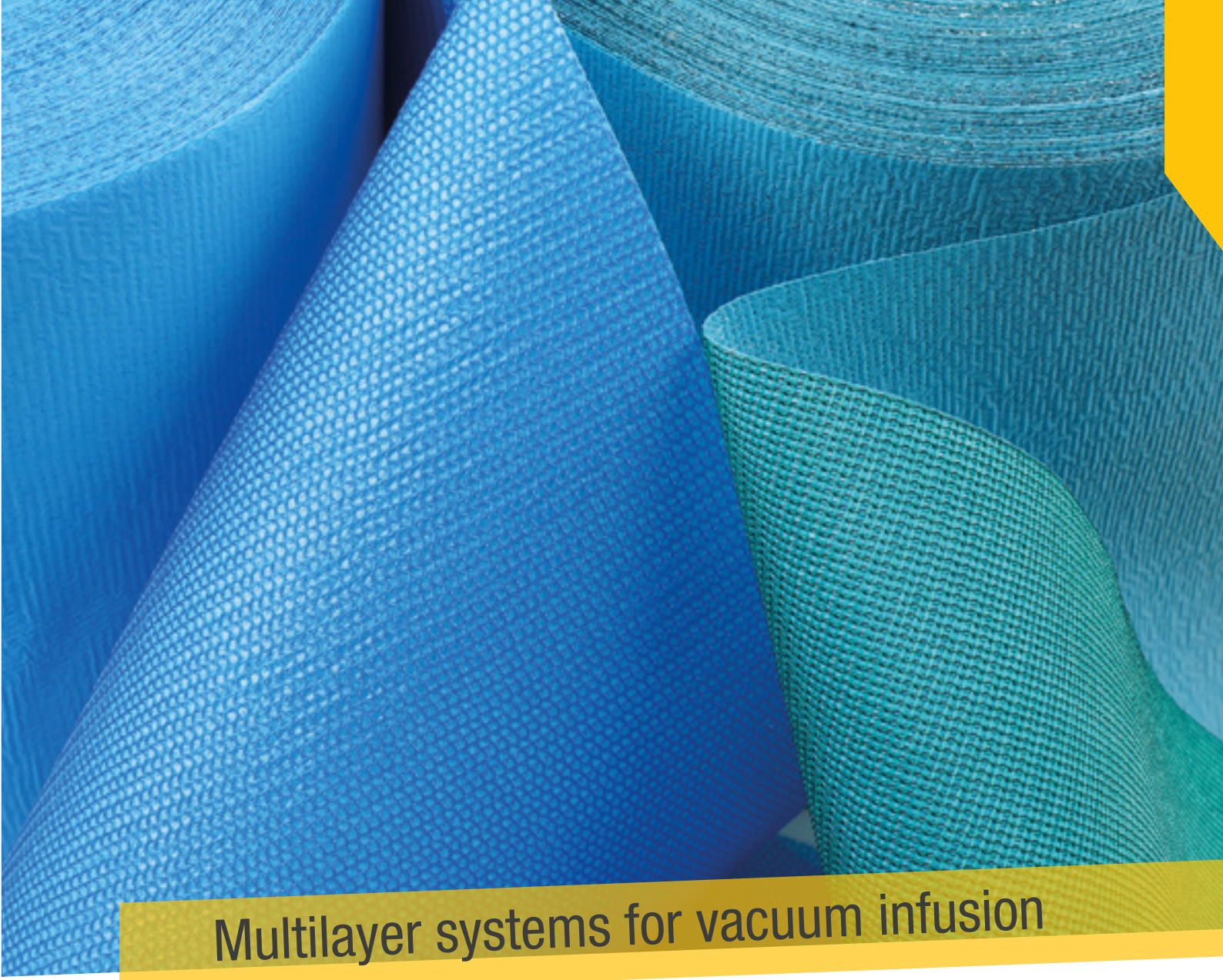
ORANGE

High Modulus Polyimide film recommended for production of advanced composite structures under very high temperatures .

Recommended for high performance composites or thermoplastics.

\+ Remarkable technical, physical and chemical properties.

1.50 m	100 m	25 I 50 µ	Max. 400 °C



Multilayer systems for vacuum infusion

INFUPLEX® range
INFUPEEL®

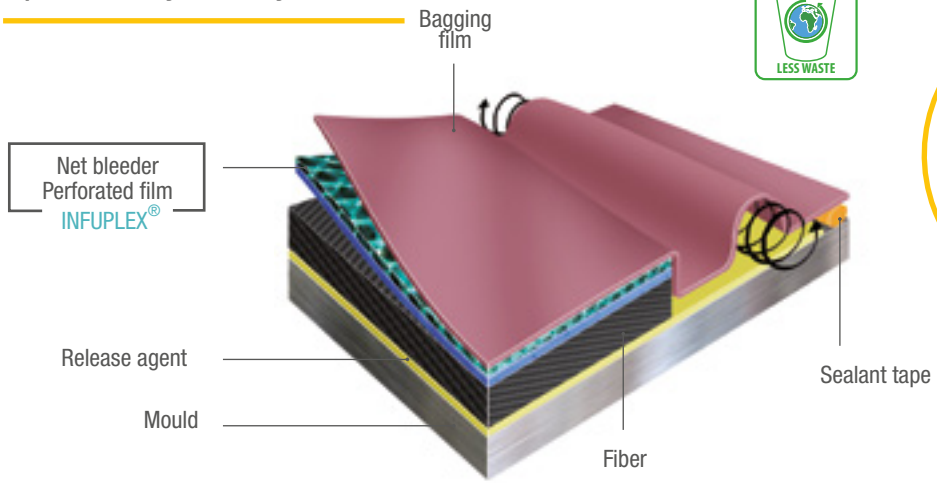
Multilayer systems for vacuum infusion

p.109

CONFECTION & KITTING

INFUPLEX® is an innovative product created by DIATEX in 2007 which marks the evolution of the lamination process by infusion.

Optimized system by DIATEX



LESS WASTE

DIATEX Composite Division provides technical support to select bagging materials in order to optimize the infusion process.

CLASSIC vacuum infusion process

The infusion process involves the successive implementation of bagging materials such as :

1. PEEL PLY
2. PERFORATED RELEASE FILM
3. NET BLEEDER

- ✗ Time consuming and difficult implementation
- ✗ Spray adhesive over-use
- ✗ Loss of productivity : many cuts and successive operations

INFUPLEX®

INFUPLEX® combines 2 of the 3 mentioned layers in one product :

1. PEEL PLY
2. RELEASE FILM + NET BLEEDER

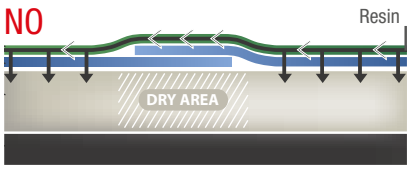
- ✓ Easy to use
- ✓ No risk of omissions
- ✓ No risk of dry areas due to overlaps
- ✓ Reduces use of spray adhesive

INFUPEEL®

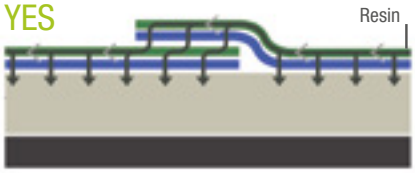
INFUPEEL® combines the 3 mentioned layers in one product :

1. PEEL PLY + PERFORATED RELEASE FILM + NET BLEEDER

- ✓ Reduces use of spray adhesive
- ✓ Optimized implementation



LAYING UP WITHOUT INFUPLEX®



LAYING UP WITH INFUPLEX®

INFUPLEX® Range

Vacuum infusion multilayer systems

INFUPLEX® are multilayer systems used in manufacturing processes for vacuum infusion of composite materials. The systems combine two vacuum consumables into a two-layer unit (a perforated film and a net bleeder on top).
There are several INFUPLEX® versions with different net bleeders. INFUPLEX® is also a very simple solution to lay up the bagging materials.
The INFUPLEX® QUADRILLE has a grid of 100*100 mm for fast laying of resin channels and error-free vacuum.

Used in manufacturing processes for vacuum infusion of composite materials.

INFUPLEX® is a self-releasing material. Styrene soluble glue. De-densified product, neutral with resins. Standard perforated film and threads tested on the majority of polyester and epoxy resins.
INFUPLEX® QUADRILLE facilitates the installation of vacuum resin ramps.

GLOBAL			NET BLEEDER	PERFORATED FILM	USE WITH RESINS *	*	RESIN FLOW SPEED
146 gr/m²	INFUPLEX ISONET	NEW INFUPLEX ISONET Quad.	net bleeder / release film color **ISONET** 115 gr/m² Blue / Blue	ELA20 P1	E I VE I Polyester	90°C	●
200 gr/m²	INFUPLEX OM70	NEW INFUPLEX OM70 Quad.	**OM70** 180 gr/m² Green / Black / Blue	ELA20 P0	E I VE I Polyester	90°C	●●
159 gr/m²	INFUPLEX DIANET 135	NEW INFUPLEX DIANET 135 Q.	**DIANET 135** 135 gr/m² White / Blue	ELA20 P0	E I VE I Polyester	90°C	●●●
132 gr/m²	INFUPLEX FLONET		**FLONET** 112 gr/m² Yellow / Blue	ELA20 P0	E I VE I Polyester Filled resins	90°C	●●●●
205 gr/m²	INFUPLEX FASTNET	NEW INFUPLEX FASTNET Quad.	**FASTNET** 180 gr/m² Orange / Blue	ELA20 P0	E I VE I Polyester Filled resins	90°C	●●●●●
255 gr/m²	INFUPLEX OM70 PA		**OM70 PA** 220 gr/m² White / Blue	ETFE P1	Epoxy HT	200°C	●●
160 gr/m²	INFUPLEX DIANET PA		**DIANET PA** 125 gr/m² White / Blue	ETFE P1	Epoxy HT	200°C	●●●

E = Epoxy I VE = Vinylester
• = Slow I •• = Average I ••• = Speed I •••• = High speed I ••••• = Very high speed

New multilayer system

For quick laying of resin channels

INFUPEEL®

3 layer vacuum infusion complex

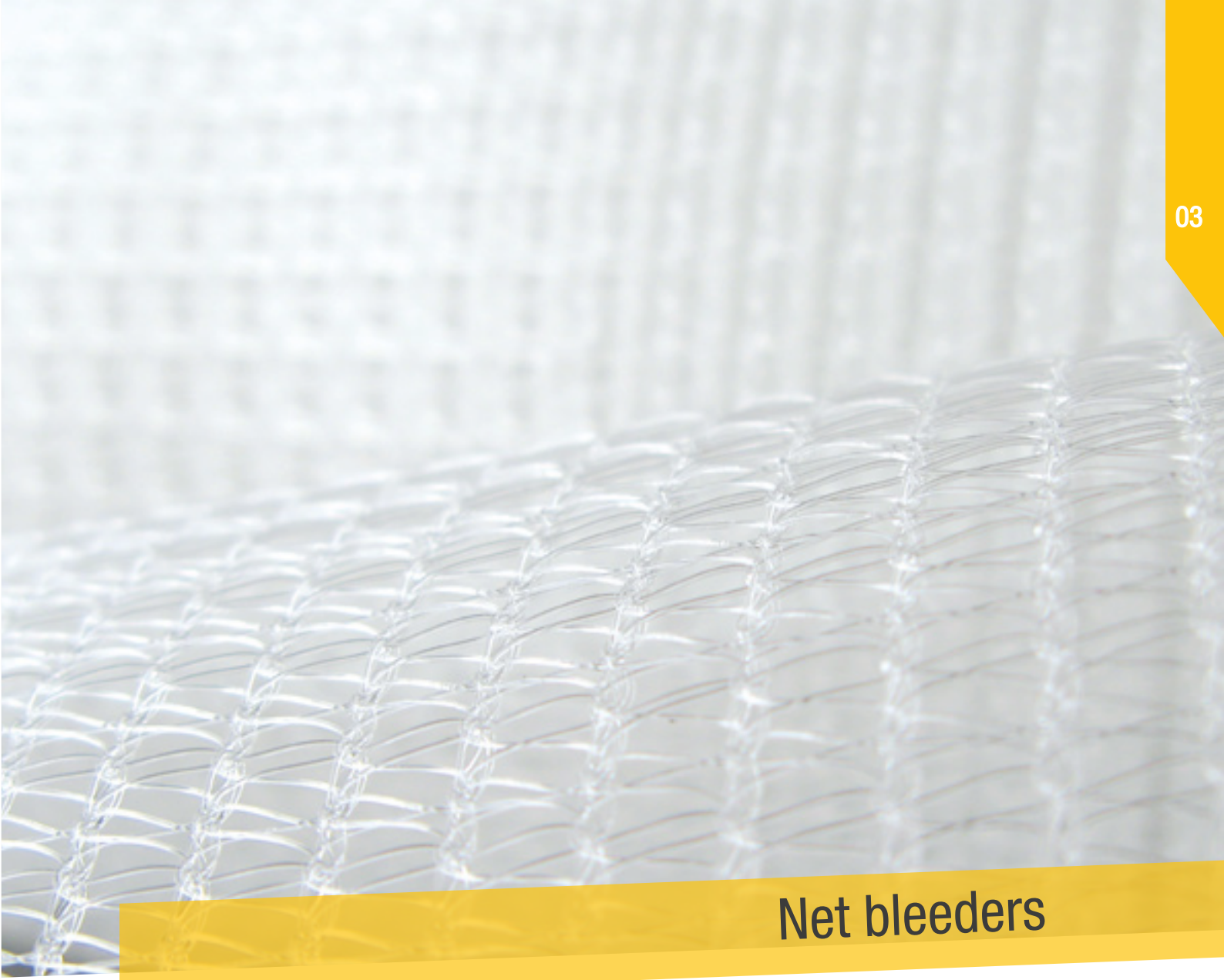
INFUPEEL® are multilayer systems used in manufacturing processes for vacuum infusion of composite materials.
The systems combine three vacuum consumables into a three-layer unit: a peel ply, a perforated film ELA20P1 permeable to resin and gases, a net bleeder on top.
There are 3 INFUPEEL versions, with 3 different peel ply :
- INFUPEEL® DIANET PES90
- INFUPEEL® DIANET PA80
- INFUPEEL® DIANET135 PES107 **extremely easy peeling**

Used in manufacturing processes for vacuum infusion of composite materials.

\+ De-oiled.
Heat set.
This easy-to-use solution eliminates the technical risk of overlap or of the omitted layer. Save time and optimise the production with INFUPEEL.

g GLOBAL		NET BLEEDER net bleeder / release film color	PERFORATED FILM	PEEL PLY	*	RESIN FLOW SPEED
249 gr/m²	 INFUPEEL DIANET PES90	**DIANET 135** 135 gr/m² White / Blue +fabric	ELA20 P0	PES90	90°C	●●●
239 gr/m²	 INFUPEEL DIANET PA80	**DIANET 135** 135 gr/m² White / Blue +fabric	ELA20 P0	PA80	90°C	●●●
264 gr/m²	 INFUPEEL DIANET PES107	**DIANET 135** 135 gr/m² White / Blue +fabric	ELA20 P0	PES107EV2	90°C	●●●

* Max. temp.
• = Slow • • = Average • • • = Speed • • • • = High speed • • • • • = Very high speed

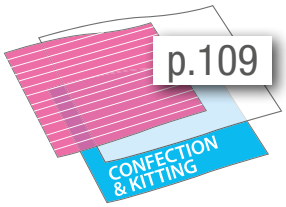


Net bleeders

ISONET
OM70
DIANET135
FLONET
FASTNET
DIANET PA
OM70 PA

Net bleeders

p.109



In order to meet a rising demand for high temperature vacuum infusion solutions, Diatex developed a specific range of net bleeders withstanding temperature up to 200°C. Based on polyamide, these net bleeders are heat-setted in order to avoid the rolling up of the flanges.

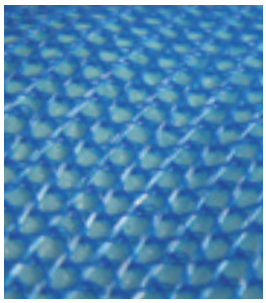
Net bleeders range

		MATERIAL	WEIGHT	RESIN FLOW SPEED
ISONET	90 °C	CO PE	115 gr/m²	●
OM70	90 °C	PE	180 gr/m²	●●
DIANET 135	90 °C	CO PE	135 gr/m²	●●●
FLONET	90 °C	CO PE	112 gr/m²	●●●●
FASTNET	90 °C	CO PE	170 gr/m²	●●●●●
DIANET PA	200 °C	POLYAMIDE	125 gr/m²	●●●
OM70 PA	200 °C	POLYAMIDE	220 gr/m²	●●

● = Low ●● = Average ●●● = Speed ●●●● = High speed ●●●●● = Very high speed

ISONET

Net bleeder



BLUE

Technical net bleeder which has a balanced structure allowing similar air and resin flow in every direction, recommended for vacuum infusion technology with polyester or epoxy resins.
ISONET can be used in the vacuum moulding process in order to precompact the prepregs

Available in INFUPLEX version for easy implementation.

\+ Good elongation.
This net is heat-setted in order to avoid the rolling up of the flanges.

1.45 I 2 I 4 m

50 I 100 m

900 µ

Max. 90 °C

Oven · High pressure autoclave · Vacuum infusion

OM70

Net bleeder

BLACK / GREEN

Net bleeder with a high porosity allowing good air and resin flows, OM70 is recommended for vacuum or injection technologies with polyester or epoxy.

Available in INFUPLEX version for easy implementation.

+ This net is deoiling in order to avoid any contamination in the composite : no transfer.

	1.45 I 2 I 4 m	50 I 100 m	1117 µ	Max. 90 °C

DIANET 135

Net bleeder

WHITE

Knitted net bleeder with a very high porosity allowing good air and resin flow, is recommended for vacuum infusion technology with polyester, vinylester or epoxy resins.
Can be used in vacuum molding process for debulking of prepregs.

Recommended for very large part and high speed flow infusion.
Available in INFUPLEX version for easy implementation.

+ Heat-stabilized and de-oiled in order to avoid the rolling up of the flanges and contamination of the resin.

	1.45 m 2 I 4 m	100m 130 m	1190 µ	Max. 90 °C

FLONET

Economic net bleeder

YELLOW

This bleeder is recommended for vacuum infusion technology with polyester or epoxy resins.
Can be used in vacuum moulding process in order to precompact the prepregs.

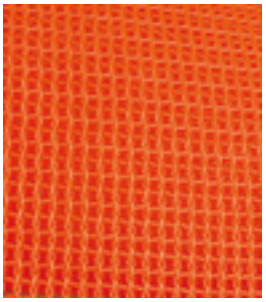
Recommended for very large part.
Available in INFUPLEX version for easy implementation.

+ De-oiled in order to avoid contamination of the resin.

	0.72 I 1.20 I 1.45 m	100 m	1150 µ	Max. 90 °C

FASTNET

Infusion media



ORANGE

This bleeder net / mesh has been designed for vacuum moulding and infusion of composites products. The construction of this net allow a very fast flow of resin during infusion process: perfect for vacuum infusion of very large parts.

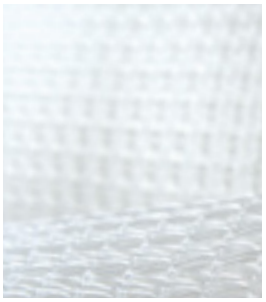
It allows productivity gain for the manufacturing of small and medium series. Available in INFUPLEX version.

+ Self-release. Compatible with polyester and epoxy resins.

	1.45 m	100 m	1180 µ	Max. 90 °C

DIANET PA

High temperature infusion media



WHITE

This bleeder is recommended for vacuum infusion technology with epoxy resins. Can be used in vacuum moulding process in order to precompact the prepregs.

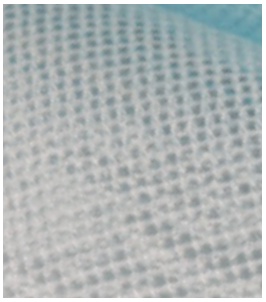
Available in INFUPLEX version for easy implementation.

+ Heat-stabilized and de-oiled in order to avoid the rolling up of the flanges.

	1.45 m 2 m	100 m 130 m	1050 µ	Max. 200 °C

OM70 PA

High temperature infusion media



WHITE

This bleeder is recommended for vacuum or injection technologies with epoxy resin. Due to its thickness and weight, this net bleeder reduces the resin wastes.

Available in INFUPLEX version for easy implementation.

+ De-oiled in order to avoid contamination of the resin.

	1.45 m	100 m	1100 µ	Max. 200 °C

Oven · High pressure autoclave · Vacuum infusion

Multilayer systems for vacuum moulding

VACUOPLEX®
VACUOPLEX MP®
VACUOPEEL®
VACUOLEASE®

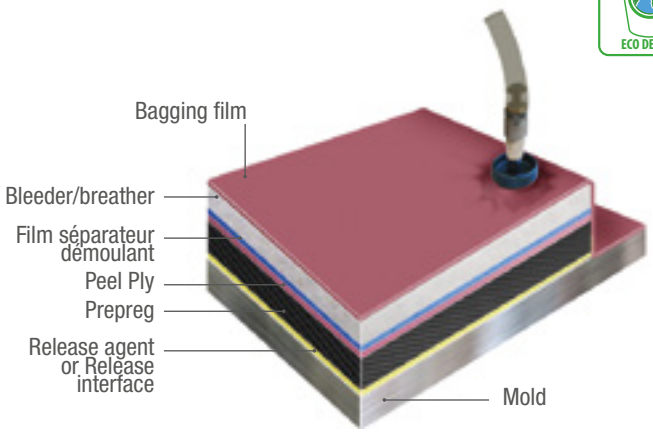
Multilayer systems for vacuum moulding

p.109

CONFECTION & KITTING

DIATEX has designed a specific range of bagging materials for prepregs and hand lay-up composite materials with vacuum polymerization. The success of DIATEX is based on the manufacture of innovating products, such as Vacuopeel™, Vacuoplex™ and Vacuolease™ whose purpose are to facilitate the application of environmental products by users during drape moulding operations.

Traditional diagram of Vacuum moulding



ECO DESIGN

DIATEX brings technical support in order to optimize vacuum moulding process with high performance bagging materials.

VACUOPLEX™ | VACUOPEEL™ | VACUOLEASE™

Save money, optimise your production !

Multilayer system range developed by DIATEX

	PEEL PLY	PERFORATED FILM	PERFORATED RELEASE FILM	MICROPOROUS FILM	BLEEDER BREATHER
VACUOPLEX MP ®	X			X	X
VACUOPLEX ®	X	X			X
VACUOPEEL ®	X		X		X
VACUOLEASE ®			X		X
TISSU MP	X			X	

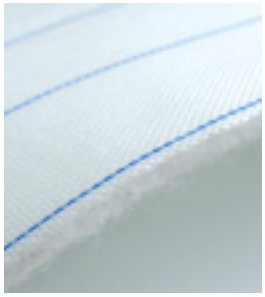
Oven High pressure autoclave

	REFERENCE	PEEL PLY	BREATHER / BLEEDER	PERFORATED FILM	USE WITH RESIN *	APPLICATION
 VACUOPLEX	**PA85/PES340**  WHITE / WHITE + Blue stripes	PA85 Polyamide	PES340 Polyester	P	E I VE	VACUUM MANUFACTURING
 VACUOPLEX MP	**PA100ST/PES150**  WHITE/ PINK	PA100ST Polyamide	PES150 Polyester	MICRO-POROUS	E I VE	PREPREG
 VACUOPEEL	**PA90 / PES340**  WHITE/ PINK + Blue stripes	PA90 Polyamide	PES340 Polyester	P	E I VE	CARBON
	PA80 / PES200  WHITE / WHITE + Blue stripes	PA80 Polyamide	PES200 Polyester	P	E I VE	STANDARD / ECO
	PA64 / PES200  WHITE / WHITE + Red stripes	PA64 Polyamide	PES200 Polyester	P	E I VE	THIN SURFACES
	PES85 / PES340  WHITE / WHITE	PES85 Polyester	PES340 Polyester	P	E I PH I EL	PHENOLIC RESIN
 VACUOLEASE	**PP40P3 / PES150**  WHITE / RED	-	PES150 Polyester	PP40 P3	E I PH I EL	VAC.MOULDING APPLICATIONS < 160°C
	PP40P3 / PES340  WHITE / RED	-	PES340 Polyester	PP40 P3	E I PH I EL	VAC.MOULDING APPLICATIONS < 160°C
	ETFEP3 / PES150  WHITE / BLUE	-	PES150 Polyester	ETFE P3	E I PH I EL	VAC.MOULDING APPLICATIONS
	ETFE NP / PES340 / ETFE P3  BLUE / WHITE / RED		PES340 Polyester	ETFE P3 ETFE NP	E I PH I EL	VAC.MOULDING SILICONE MEMBRANES

* E = Epoxy I VE = Vinylester I PH = Phenolic I EL = Elastomere

VACUOPLEX®

DIATEX vacuum moulding complex



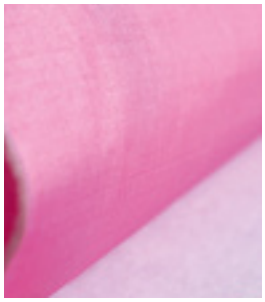
This 3 products combination has been created for the vacuum moulding technology.
This patented complex facilitates the implementation of the bagging materials.
Use **VACUOPLEX**™ on small or big parts in direct contact with the resin (peel ply side incontact with the resin).
During the curing process, **VACUOPLEX**™ will degas and remove the excess of resin more efficiently compare to the traditional method.

Productivity gains for the production of advanced parts.

\+ Remove **VACUOPLEX**™ in one part.
Prepare **VACUOPLEX**™ with hot knife or scissors.

	1.50 m	50 m	+/- 6 mm

VACUOPLEX MP® *MICROPOROUS vacuum moulding complex*



Designed and developed by Diatex, **VACUOPLEX MP**® is a real concentrate of technologies.
It brings together the know-how of weaving, DIATEX textile finishing and the transformation of composite materials.

Microporous multilayer system used in manufacturing processes for vacuum moulding of composite materials with techniques such as prepreg, wet lay-up.
It is a **VACUOPLEX**™ evolution, it gives many benefits to the producers : save time and improve the composites quality. Under vacuum the resin can't pass through the film excepted gases. Thanks to the non woven bleeder, the vacuum acts uniformly on the entire area during all the curing process, and the resin can't stop it as it is blocked under the microporous film.

\+ Multilayer.
3 in 1.
Microporous.
Eco-design.

	1.50 m	50 m	+/- 6 mm

	FOR VACUUM MANUFACTURING	FOR PREPREGS
g	**VACUOPLEX** 470 gr/m²	**VACUOPLEX MP** 284 gr/m²
1 PEEL PLY		
g	PA85 85 gr/m²	PA100ST 107 gr/m²
	WHITE POLYAMIDE + BLUE STRIPES	PINK POLYAMIDE NO STRIPES
2 PERFORATED FILM		
	YES	MICROPOROUS
3 BREATHER/BLEEDER		
g	PES340 340 gr/m²	PES150 150 gr/m²
	WHITE	WHITE

VACUOPEEL®

A VACUOPEEL® for each application

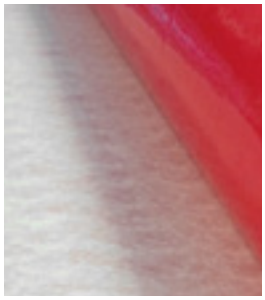
Patented three-layer complex designed for vacuum moulding of composite materials with techniques such as prepreg, wet lay-up, and thermoplastic.
This “smart complex” gives many benefits to the producers : save time, improve the composites quality, one product to buy instead of 3, one product to apply instead of 3.
The only difference is on the fact that you can remove the **VACUOPEEL**™ in 2 times after the curing process.
VACUOPEEL™ is an evolution of the **VACUOPLEX**™ developed in 1991.
Several versions available. Choose the right one for your application.

1.50 m

50 m

	CARBON APPLICATIONS	STANDARD/ ECO APPLICATIONS	THIN SURFACES APPLICATIONS	PHENOLIC RESIN APPLICATIONS
	PA90 / PES340 470 gr/m² 6 mm	**PA80 / PES200** 350 gr/m² 5 mm	**PA64 / PES200** 334 gr/m² 5 mm	**PES85 / PES340** 470 gr/m² 6 mm
1 PEEL PLY				
	PA90 83 gr/m² PINK POLYAMIDE + STRIPES	PA80 80 gr/m² WHITE POLYAMIDE + BLUE STRIPES	PA64 64 gr/m² WHITE POLYAMIDE + RED STRIPES	PES85 85 gr/m² WHITE POLYESTER
2 PERFORATED FILM				
	YES	YES	YES	YES
3 BREATHER / BLEEDER				
	PES340 340 gr/m² WHITE	PES200 200 gr/m² WHITE	PES200 200 gr/m² WHITE	PES340 340 gr/m² WHITE

VACUOLEASE®



Drains and protects silicone tools.

Remove **VACUOLEASE™** in one part.
Prepare **VACUOLEASE™** with hot knife or scissors.

1.50 m

50 m

+/- 6 mm

Two-layer system for vacuum moulding

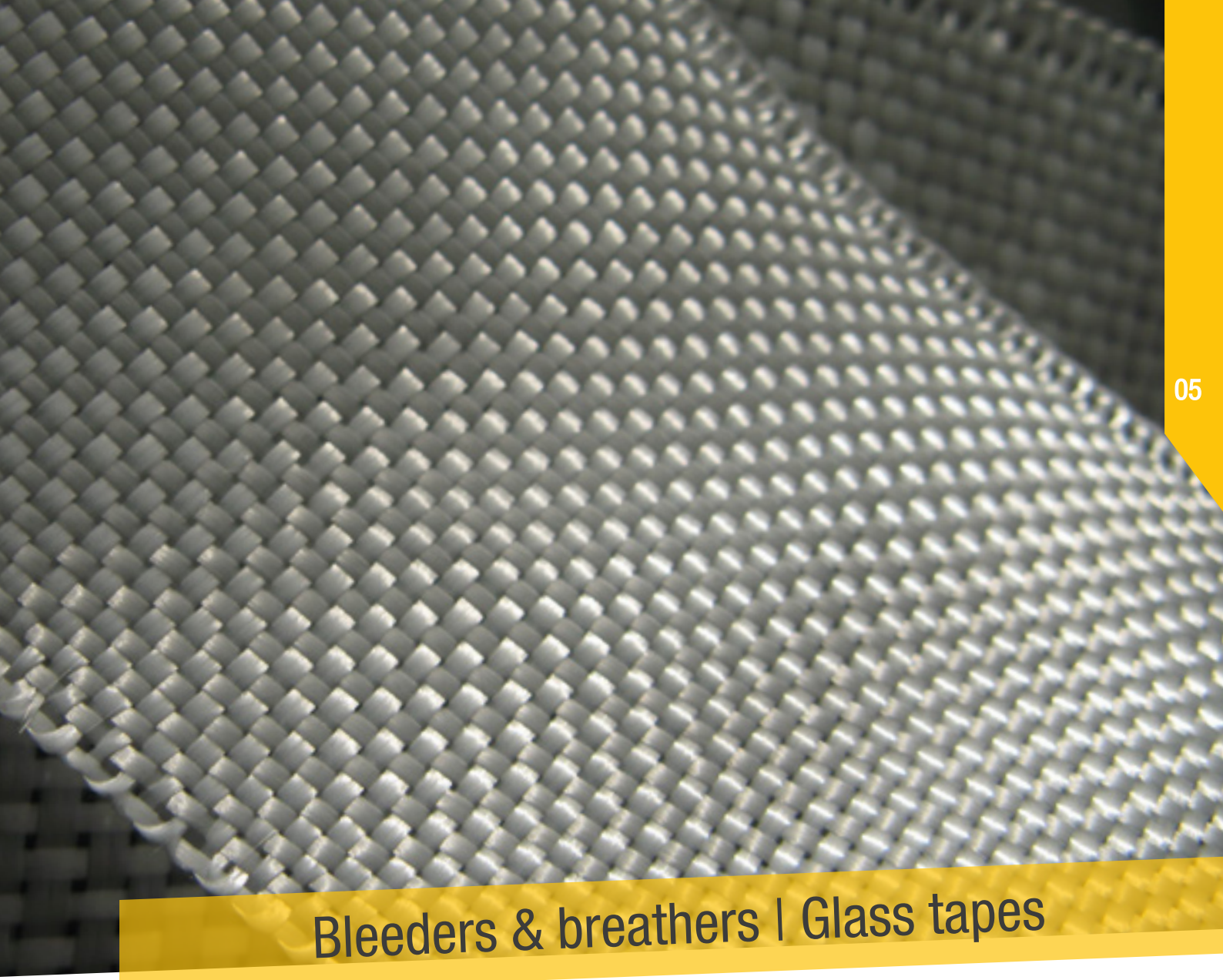
Patented two-layer complex designed for vacuum moulding technology.
VACUOLEASE™ is available in different configurations : a non perforated or perforated release film, a non woven bleeder (different weight) are linked in only one product.

Three-layer system for vacuum moulding

Patented 3-layer complex designed for vacuum moulding technology.
Perforated films and breathers/bleeders are combined into a single product to facilitate the moulding process.
It is applied in direct contact with the resin, on the blue side. The non-perforated film protects the silicone tools from resin bleeding.

APPLICATIONS MSV < 160°	Vac. Moulding APP. < 160 °C	Vac. Moulding APPLICATIONS	Vac. Moulding APPLICATIONS
GLOBAL	**PP40P3 / PES150** 188 gr/m²	**PP40P3 / PES340** +/- 380 gr/m²	**ETFEP3 / PES150** +/- 185 gr/m²	**ETFE P3 / PES340 / ETFE NP** 410 gr/m²
	WHITE / RED	WHITE / RED	WHITE / BLUE	BLUE / WHITE / RED
PERFORATED FILM 1				
	PP40 P3	PP40 P3	ETFE P3	ETFE P3 (blue) ETFE NP (red)
BREATHER / BLEEDER 2				
	PES150 150 gr/m²	PES340 340 gr/m²	PES150 150 gr/m²	PES340 340 gr/m²
	WHITE	WHITE	WHITE	WHITE
	Max. 160 °C	Max. 160 °C	Max. 205 °C	Max. 205 °C

Other configurations upon request



Bleeders & breathers | Glass tapes

Bleeders & breathers
Glass tapes

Bleeders & breathers | Glass tapes

p.109

CONFECTION & KITTING

DIATEX offers a range of specific draining products for vacuum moulding.

Glass tapes

WHITE
(Glass aspect)

Glass tapes combine woven glass bleeder and breather fabric, recommended for high pressure and temperature cures. It provides an air channel and enables venting throughout the cure cycle to avoid porosity in the laminate. Due to its specific construction, this fiberglass tape offers a good flexibility and avoid risk of perforation of the bagging film.

Fiberglass tapes are easy to cut and set up in the periphery of the tooling.

+ Excellent airflow (due to the porosity).
Fire-retardant products.
Suitable for use in high temperature cycles (700°C).

	50 I 100 150 I 300 mm Other width under request	100 m	Max. 700 °C	15 bars	220 gr/m²

Bleeders & breathers

WHITE

These non woven breather and bleeder felts, made of polyester fibers, are recommended for the moulding of elaborated forms for the vacuum technology with prepregs in autoclave. PES340 FR (Fire Retardant) is a bleeder/breather for high pressure and temperature cures. Made of polyester fibers with special fire-retardant treatment, this non-woven bleeder reduces fire hazard during autoclave process.

Perfect for complex shapes.

+ Felts made with recycled fibers.
Good elongation
High porosity allowing good air flow.

1.55 m

Max. 205 °C

REFERENCE	WEIGHT	STRECH	PRESSURE	THICKNESS	LENGTH	FIRE-RETARDANT
PES 150	150 gr/m²	EXCELLENT	3 bars	3.5 mm	100 m	
PES 150 FR	150 gr/m²	EXCELLENT	3 bars	3.5 mm	100 m	X
PES 200	200 gr/m²	EXCELLENT	4 bars	5 mm	100 m	
PES 340	340 gr/m²	GOOD	7 bars	6 mm	50 I 100 m	
PES 340 FR	340 gr/m²	GOOD	7 bars	6 mm	50 m	X
PES 440 HDTEX	440 gr/m²	GOOD	9 bars	7 mm	50 m	

Oven · High pressure autoclave · Vacuum infusion

Release films

DIATEX offers a range of perforated and non-perforated release films for high temperature applications.
Polyolefin films release with most resins.
Fluoropolymer films release with all types of resins.

p.109
CONFECTION & KITTING

Release films range

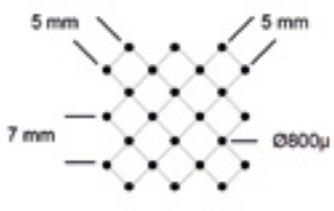
The perforation of these separator films is controlled by indicators that guarantee a quality of hot perforation throughout the manufacturing process.

	COLOR	PERFORATION NP	PERFORATION P0	PERFORATION P1	PERFORATION P3	TYPE
ELA20	BLUE RED YELLOW	●	●	●	●	Polyethylene
ELA50	BLUE	●	●	●		Polyethylene
PP40	RED	●		●	●	Polypropylene
PMP200	PURPLE	●		●	●	Polymethylpentene
ETFE230 *	BLUE	●		●	●	ETFE Fluoropolymer
A5000 *	RED	●		●	●	FEP Fluoropolymer
PTFE315	RED	●				PTFE

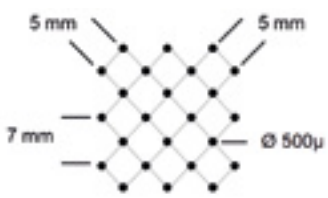
NP = Non perforated | P1 = Perforated P1 (large) | P3 = Perforated P3 (small)
* Available in tube version

Oven
High pressure autoclave
Vacuum infusion

P0 Perforation



P1 Perforation



P3 Perforation

ELA20

Economic standard release film

Modified polyethylene film, used as release film.
It gives the part a matt finishing.

Recommended for the vacuum molding (P3) or infusion technology (P1) with polyester or epoxy resins.

+

Easy implementation.
Release film with all resins and elastomers.
Economical.

BLUE RED YELLOW

More lenghts upon request

NP	1 m	200 m	25 µ	125 °C	400%
P0	1.45 m	400 m			300%
P1	1.45 m	400 m			300%
P3	1 m	200 m			300%

ELA50

Polyolefin HM release film

Release film belonging to the polyolefin family, copolymer of polypropylene.
The perforated release film allows bleeding gasses and excess of resins and can be also used for high temperature infusion process (P1).
This release film does not contaminate the composite.

Recommended for the vacuum molding (P3) or infusion technology (P1) with polyester or epoxy resins.

+

Release film with all resins and elastomers.

BLUE

NP	1.45 m	200 m	50 µ	125 °C	300%
P0					
P1					

PP40

Polyolefin release film

RED

Release film belonging to the polyolefin family, copolymer of polypropylene.
The perforated release film allows bleeding gasses and excess of resins and can be also used for high temperature infusion process (P1).
This release film does not contaminate the composite.

PP40 film is recommended for the vacuum moulding (PP40P3) or infusion technology (PP40P1) with polyester or epoxy resins.

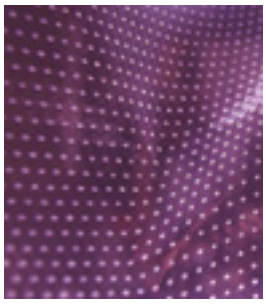
+

Release film with all resins and elastomers.

				Max.	ELONGATION
NP, P1, P3	1.60 m	200 m	40 µ	160 °C	700%

PMP200

High temperature Polyolefin release film



PURPLE

This film is manufactured from Polymethylpentene (PMP) copolymer resin (polyolefin family).
This release film does not contaminate the composite.

PMP200 offers manufacturers of composite products a material which will perform up to 200°C.

+

Good elongation and mechanical characteristics.
Release film with all resins and elastomers.

				Max.	ELONGATION
NP, P1, P3	1.50 m	200 m	30 µ	200 °C	330%

Oven · High pressure autoclave · Vacuum infusion

ETFE230

High temperature fluoropolymer release film

BLUE RED

Release film belonging to the fluoropolymer family.
Fluoropolymer film is manufactured from a copolymer of ethylene and tetrafluoroethylene resin. This release film does not contaminate the composite.

NP - P3 : Recommended for vacuum moulding of prepregs in autoclave processes.
P1 : Recommended for the high temperature vacuum infusion process (mono-component resins)

\+ High elongation.
Excellent heat stability.

				Max.	ELONGATION
NP P1 P3	1.50 m	150 m	15 µ 20 µ	230 °C	350%

A5000

High performance fluoropolymer release film

RED

Release film belonging to the fluoropolymer family FEP. It is a high temperature and high elongation release film which will conform to complex shapes. It will provide a glossy finish when removed from the laminate.
The perforated release film allows bleeding gasses and excess of resins and can be also used for high temperature infusion process (P1).

Recommended as release film for advanced composite high temperature cures up to 260°C.

\+ Releases from most resin systems.

				Max.	ELONGATION
NP P1 P3	1.22 m	183 m	25 µ 50 µ	260 °C	300%

PTFE315

High temperature release film

RED

Belonging to the family of fluorinated polymers, this PTFE film is used as a release film for extremely high temperature vacuum bagging applications. It adds a glossy surface finish to the part. It can be applied in direct contact with the resin.
Due to its high elasticity, it may be used on highly developed parts. It is easy to use and can be used only once. It is releaseable with all types of resins.

It is recommended for thermoplastic and thermoset applications.

Very good thermal stability.
Remarkable demoulding capacity.
Does not contaminate resins.

NP		1.22 m	153 m	25 µ	Max. 315 °C	ELONGATION 400%

Oven · High pressure autoclave · Vacuum infusion

07

Peel plies

Peel plies

p.109

CONFECTION & KITTING

DIATEX developed a complete range of peel plies : from 50 to 185 gr/m2, dyed or undyed, with stripes, polyamide or polyester, bands or full width. PA85 is the standard quality, taffetas weave, white, with stripes. Those fabrics are used to impart a textured surface to the moulded component to improve adhesion in secondary bonding or painting. We are able to manufacture your own peel ply with specific characteristics.
All our peel plies are treated in order to avoid bringing any pollutant (such as silicones) in the finished product. We control their porosity to guarantee the repetitiveness of the infusion process.

MP Peel ply is a microporous multilayer system used in composite materials manufacturing processes such as vacuum molding techniques: prepreg, wet lay-up and thermoplastic. The perforated film is now replaced by a microporous film with tiny pores. It means that, under vacuum, the resin (or any liquid) cannot go through the film, unlike any gas or volatile.

POLYAMIDE

PA64	PA80	PA80 AD	PA80 MP	PA80 FLUO	PA85	PA105
WHITE + RED STRIPES	WHITE + RED/BLUE STRIPES	WHITE + RED/BLUE STRIPES	WHITE + RED/BLUE STRIPES	FLUO. YELLOW + RED/BLUE STRIPES	WHITE + BLUE STRIPES	WHITE + BLUE STRIPES
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓		✓	✓	✓
Thin surface & Elastomere	Economic	Adhesive Peel Ply	Prepregs Low T°	Carbon	Standard	Developed shape

Oven · High pressure autoclave · Vacuum infusion · Filament winding

POLYESTER

PES50JS	PES85	PES90	PES90 AD (NEW)	PES90ST (NEW)	PES90 MP
YELLOW	WHITE	WHITE + ORANGE GREEN STRIPES	WHITE + ORANGE GREEN STRIPES	WHITE	WHITE + ORANGE GREEN STRIPES
Epoxy | Phenolic	Phenolic	Eco. | PES phenolic & elastomere	Adhesive Peel Ply	Eco. | PES phenolic & elastomere	Phenolic

PES105	PES107 EV2 (NEW)	PES107ST EV2 (NEW)	DIATEX 1500	DIATEX 2000
WHITE	WHITE + YELLOW/ BLACK STRIPES	WHITE	WHITE	WHITE
Developed shape	Very easy peeling	Easy peeling	Winding applications	Winding applications

AERONAUTICAL RANGE

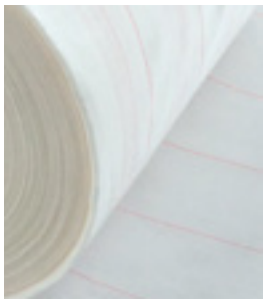
PA90	PA95	PA95 ST	PA100	PA100 ST	PA100 ST MP	DIATEX 1400EV6 (NEW)	DIATEX 1500EV6	DIATEX 1500EV6 MP	DIATEX 2000EV6
PINK + BLUE STRIPES	WHITE + BLUE STRIPES	WHITE	PINK + BLUE STRIPES	PINK	PINK	WHITE	WHITE	WHITE	WHITE
Carbon	Bonding	Bonding	Carbon	Carbon	Carbon	Structural bonding	Structural bonding	Structural bonding	Structural bonding

DIATEX1500EV6 has several aeronautical qualifications with high G1C/DCB Test values.
AIRBUS : IPS 12-01-001-05
BOEING : BMS8-308 TYPE IV

Polyamide peel plies

PA64

High tenacity light peel ply



High tenacity technical peel ply designed to be used on epoxy and polyester composite systems. It leaves a fine surface impression for painting and secondary bonding.

Its tight weave allows control of the resin flow (perfect for vacuum moulding applications).

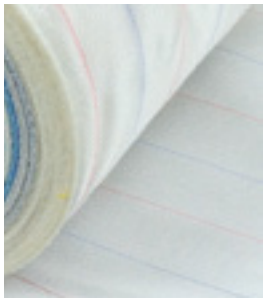
+ Easy removal.
Available in full width or bands.
Heat-setted.

WHITE
+Red stripes

1.63 m	100 m	120 µ	Max. 200 °C	64 gr/m²

PA80

Economic peel ply



High tenacity standard peel ply and economic made by DIATEX designed to be used on epoxy and polyester composite systems.
The fabric leaves a fine surface impression for priming and secondary bonding.
For phenolic systems, use the polyester version DIATEX PES90.

Adhesive version (PA80AD) available for RTM and Infusion processes.

+ Easy removal.
There is no release agent or silicon in the fabric so there is no contamination.

WHITE
+Red/blue stripes

1.61 m	100 m	160 µ	Max. 200 °C	83 gr/m²

PA80 AD

High tenacity 1-side adhesive peel ply

High tenacity standard and economic one side adhesive peel ply made by DIATEX.
With only a few grams of adhesive per m², this adhesive peel ply avoids to use hazardous spray glue. PA80AD comes with a protector.

Designed to be used on epoxy and polyester composite systems.

+ PA80AD simplifies the implementation of peel ply on vertical surface or on dry fibers.

WHITE
+Red/blue stripes

1.55 m	100 m	200 µ	Max. 200 °C	121 gr/m²

Oven · High pressure autoclave · Vacuum infusion · Filament winding

PA80 MP

Microporous technical peel ply

High tenacity polyamide micro-porous peel ply designed to be used on epoxy and polyester composite systems.

Used in manufacturing processes for vacuum moulding of composite materials with techniques such as prepreg, wet lay-up, and thermoplastic.

\+ Multilayer.
Microporous.

WHITE
+Red/blue stripes

1.50 m	50 m	170 µ	Max. 120 °C	117 gr/m²

PA80 FLUO

Dyed yellow peel ply fabric

High tenacity standard peel ply and economic made by DIATEX.
The fabric leaves a fine surface impression for priming and secondary bonding. There is no release agent or silicon in the fabric so there is no contamination.

Designed to be used on epoxy and polyester composite systems.

\+ High visible colour.
Available in full width or bands.

FLUORESCENT YELLOW
+ Red/blue stripes

1.60 m	100 m	160 µ	Max. 200 °C	83 gr/m²

PA85

Standard polyamide peel ply

PA85 is the most standard high tenacity peel ply made by DIATEX.
Not recommended for phenolic systems. Use PES85: the polyester version.

Designed to be used on epoxy, vynilester and polyester composite systems.

\+ There is no release agent or silicon in the fabric so there is no contamination.
Available in full width or bands.

WHITE
+ Blue stripes

1.63 m	100 I 500 m	160 µ	Max. 200 °C	85 gr/m²

PA105

Polyamide peel ply with high drapability

WHITE
+ Blue stripes

High tenacity peel ply designed to be used on epoxy, vynilester and polyester composite systems.
Not recommended for phenolic systems : prefer the polyester version PES105.

Its porosity allows a good migration of the exceeding resin to the breather/bleeder.

+

Twill construction allowing very good elongation of the fabric.
Designed to be used on complicated shape.

1.60 m	100 m	215 µ	Max. 200 °C	105 gr/m²

Polyester peel plies

PES50JS

Silicone coated polyester peel ply

YELLOW

High tenacity technical peel ply coated with silicone.
This high tenacity fabric leaves a fine surface impression for painting and secondary bonding.

Its porosity allows a good migration of the exceeding resin to the breather/bleeder. Designed to be used on epoxy, polyester and phenolic composite systems.

+

Very easy removal.
Available in full width or bands.

1.50 m	100 I 500 m	70 µ	Max. 204 °C	50 gr/m²

PES85

High tenacity polyester peel ply

WHITE

This high tenacity fabric leaves a fine surface impression for priming and secondary bonding. There is no release agent or silicon in the fabric. PES 85 is a synthetic fiber that offers a peel ply surface free from contamination.

Designed to be used especially on phenolic, polyester and epoxy resin systems.

+

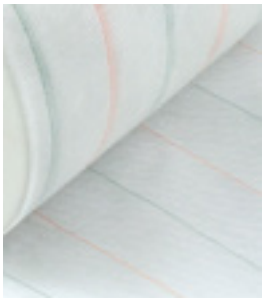
Heat-setted. Thermofixed.

1.70 m	100 I 500 m	130 µ	Max. 210 °C	85 gr/m²

Oven · High pressure autoclave · Vacuum infusion · Filament winding

PES90

High tenacity economic polyester peel ply



High tenacity standard and economic peel ply designed to be used with epoxy, phenolic and polyester composite systems. The high tenacity fabric leaves a rough surface impression for priming and secondary bonding. PES 90 is a synthetic fiber that offers a peel ply surface free from contamination

Its porosity allows a good migration of the exceeding resin to the breather/bleeder.

\+

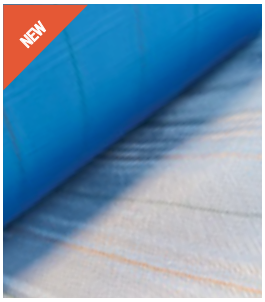
Available in full width or bands.
Scoured. Heat-setted.
No release agent or silicon in the fabric.

WHITE
+ Orange/Green stripes

1.65 m	100 m	150 µ	Max. 210 °C	90 gr/m²

PES90 AD

High tenacity 1-sided adhesive peel-off fabric



Designed by DIATEX for Vacuum Infusion and RTM processes with Epoxy, Vinylester and Polyester resins. This fabric contains only a few grams of glue per m² and reduces the use of aerosols.

1-sided adhesive, it is particularly suitable for infusion and RTM molding.

\+

Allows the elimination of the use of aerosol glues.
Repositionable glue.
Remains porous, peels easily.

WHITE
+ Orange/Green stripes

The color of the protective films may vary.

1.55 m	100 m	200 µ	Max. 200 °C	121 gr/m²

PES90 ST

Stripped and heat-set peel plie

High tenacity technical peel plie designed for composite applications with any type of resin. It is used directly on the part and leaves a rough surface to allow secondary operations such as gluing or painting

During vacuum molding, its porosity allows good migration of excess resin to the pumping felt.

\+

Peels off easily.
Does not transfer.
Available in strips or full width.

WHITE

1.56 m	100 I 500 m	150 µ	Max. 210 °C	83 gr/m²

PES90 MP

Microporous technical peel ply

WHITE
+Orange/Green stripes

High tenacity polyester micro-porous peel ply, PES90 MP is a microporous multilayer system. The fabric leaves a rough surface impression for priming and secondary bonding. There is no release agent or silicon in the fabric: There is no contamination on your composites

Used in manufacturing processes for vacuum moulding of composite materials with techniques such as prepreg, wet layup, and thermoplastic.

\+ Multilayer.
Microporous.

1.50 m	50 m	180 µ	Max. 180 °C	130 gr/m²

PES105

Polyester peel ply with high drapability

WHITE

High tenacity polyester peel ply, this fabric leaves a rough surface impression for priming and secondary bonding.

Designed to be used on epoxy, phenolic and polyester composite systems.

\+ Twill construction allowing very good elongation of the fabric to ensure an easier drapability.

1.60 m	100 I 500 m	170 µ	Max. 210 °C	105 gr/m²

PES 107 EV2

Easy-peel plie with tracers

WHITE
+ yellow/black stripes

Designed by DIATEX for vacuum casting, vacuum infusion and RTM processes with Epoxy, Vinylester and Polyester resins. This fabric has been designed to limit efforts during peeling without the addition of chemicals.
3X easier to peel compared to classic peel plies !

Significant time saving for peeling large parts.

\+ Untreated fabric that allows high quality bonding.

1.64 m	100 m	180 µ	Max. 210 °C	107 gr/m²

Silicone free

Oven · High pressure autoclave · Vacuum infusion · Filament winding

PES 107 ST EV2

Stripped and heat-fixed peel plie

WHITE

Without chemical treatment (silicone, teflon, etc.), it requires half the force of a standard fabric.

Significant time saving for peeling large parts.

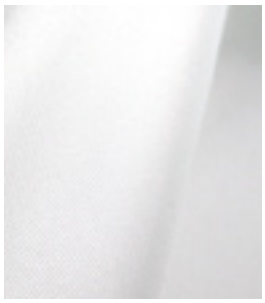
+

Untreated fabric that allows high quality bonding

1.64 m	100 m	180 µ	Max. 210 °C	107 gr/m²

DIATEX1500

Thermoshrinkable peel ply



WHITE

Technical peel ply designed to be used with epoxy and phenolic resins. This standard thermoshrinkable fabric is used in direct contact with the laminate to compact it during heating process . DIATEX1500 is used as a peel ply : the fabric leaves a rough surface impression for primary and secondary bonding.

Perfect for winding applications.

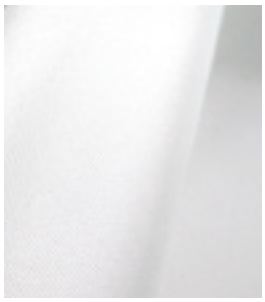
+

Thermoshrinkable. Available in tapes.

2.5 à 191 cm	100 m	160 µ	Max. 200 °C	85 gr/m²

DIATEX2000

Thermoshrinkable peel ply



WHITE

Thermoshrinkable fabric is used in direct contact with the laminate in order to compact it during heating process. DIATEX2000 is used as a peel ply : the fabric leaves a rough surface impression for primary and secondary bonding. Do not use DIATEX 2000 with polyester resins.

Perfect for winding applications.

+

Thermoshrinkable. Available in tapes.

2.5 à 195 cm	100 m	220 µ	Max. 200 °C	125 gr/m²

PA90

Pink dyed polyamide peel ply

PINK
+Blue stripes

PA90 is a high tenacity technical peel ply made by DIATEX, it leaves a fine surface impression for priming and secondary bonding.

Designed to be used on epoxy and polyester composite systems especially with the carbon fiber.

+

Can be easily identified on the carbon laminate thanks to the pink colour / blue tracers.
Heat-setted. Thermofixed.

1.56 m	100 I 500 m	160 µ	Max. 200 °C	90 gr/m²

PA95

Heavy polyamide peel ply

WHITE
+ Blue stripes

High tenacity technical peel ply.
The fabric leaves a coarse surface impression for priming and secondary bonding.
Not recommended for phenolic systems. Use the polyester version DIATEX PES85.

Designed to be used on epoxy and polyester composite systems.

+

Can be easily identified thanks to the tracers.
Heat-setted. Thermofixed.

1.62 m	100 I 500 m	190 µ	Max. 200 °C	104 gr/m²

PA95 ST

High tenacity peel ply

WHITE

High tenacity technical peel ply.
The fabric leaves a coarse surface impression for priming and secondary bonding.

Designed to be used on epoxy and polyester composite systems.

+

There is no release agent or silicon in the fabric so there is no contamination.
Heat-setted. Thermofixed.

1.62 m	100 I 500 m	190 µ	Max. 200 °C	104 gr/m²

Oven · High pressure autoclave · Vacuum infusion · Filament winding

PA100

High tenacity peel ply

PINK
+ Blue stripes

high tenacity peel ply.
This peel ply is easier to remove than our reference PA90.

Designed to be used on epoxy and polyester composite systems.

+

Can be easily identified thanks to the pink color + tracers.

1.56 m	100 I 500 m	190 µ	Max. 200 °C	107 gr/m²

PA100 ST

Pink dyed heavy polyamide peel ply

PINK

High tenacity technical peel ply .
This peel ply is easier to remove than our reference PA90.

Designed to be used on epoxy and polyester composite systems.

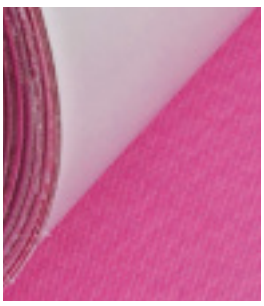
+

Can be easily identified thanks to the pink color.

1.56 m	100 I 500 m	190 µ	Max. 200 °C	107 gr/m²

PA100 ST MP

Microporous technical peel ply



PINK

Microporous multilayer system used in manufacturing processes for vacuum moulding of composite materials with technologies such as prepreg, wet lay-up, and thermoplastic.

Perfect for using with prepreg, wet lay-up, and thermoplastic.

+

Multilayer.
Microporous.

1.50 m	50 m	245 µ	Max. 180 °C	144 gr/m²

DIATEX 1400EV6

NEW

WHITE

Peel plie for Aeronautics

High temperature polyester fabric designed for aeronautical requirements.
It is used directly in contact with the part and leaves a rough surface allowing gluing or painting.
The Diatex 1400EV6 also exists in a Recycled version.

Premium bonding performance.

+

Fabric produced from recycled polyester fibers.

1.80 cm	100 m	170 µ	Max. 200 °C	94 gr/m²

DIATEX 1500EV6

WHITE

Aerospace & Defense CERTIFICATIONS

Technical peel ply for structural bonding

Technical peel ply made for high performance composite material, designed to be used especially on phenolic and epoxy composite systems.
Dry peel ply which gives better result than pre impregnated peel plies without the storage disadvantages.
Aeronautical qualifications with high G1C/DCB Test values.
AIRBUS : IPS 12-01-001-05 - BOEING : BMS8-308 TYPE IV

Recommended for critical secondary structural bonding. This technical peel ply gives the best surface for this kind of application.

+

De-oiled.
Heat-setted.

1.74 m	100 m	147 µ	Max. 200 °C	99 gr/m²

DIATEX 1500EV6 MP

WHITE

Microporous peel ply for structural bonding

High tenacity polyester micro-porous peel ply, DIATEX 1500EV6 MP is a smart microporous complex giving many benefits to the end-users : save time, improve the composites quality, one product to buy instead of 2, one product to apply instead of 2.

Increased productivity for structural bonding applications.

+

Multilayer.
Controlled resin quantity.
Microporous.

1.50 m	50 m	200 µ	Max. 180 °C	136 gr/m²

Oven · High pressure autoclave · Vacuum infusion · Filament winding

DIATEX 2000EV6

Dry heavy technical peel ply for structural bonding

WHITE

Technical peel ply made for high performance composite material, designed to be used especially on phenolic and epoxy composite systems.
Dry peel ply which gives better result than pre impregnated peel plies without the storage disadvantages.

Recommended for critical secondary structural bonding. This technical peel ply gives the best surface for this kind of application.

+

Synthetic fiber that offers a peel ply surface free from contamination.
De-oiled.
Heat-setted.

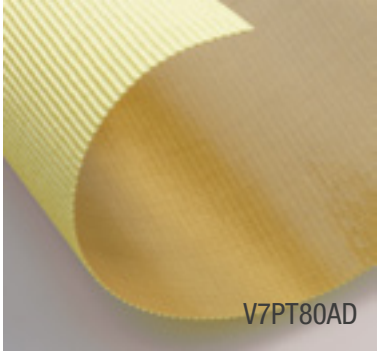
1.80 m	100 m	235 µ	Max. 200 °C	139 gr/m²

Please find thermoshrinkable peel plies p.67 !

RELEASE INTERFACES

DIATEX provides a range of PTFE & Silicone release interfaces used in vacuum moulding and vacuum infusion processes.
Porous or non porous PTFE coated glass fabrics, adhesive (silicone and acrylic) or non adhesive, bands or full width, special PTFE products (seal, bands, treatment...).
DIATEX also offers siliconed papers as very economical and environmentally friendly release interfaces.

Release interfaces



		MAX.	ADHESIVE Version	POROSITY	Coating PTFE	Coating Silicone	Finishing / Final look: Glossy	Matte	«Grid»	Smooth texture	Twill	Rainbow
PTFE COATED GLASS FABRICS	**V7PT80** 140 gr/m²	260 °C	●	-	67 %					●		
	V7PT125 250 gr/m²	260 °C	●	-	65 %		●					
	V7PT140 290 gr/m²	260 °C	●	-	65 %		●					
	V7PT250 490 gr/m²	260 °C	●	-	59 %		●					
	V4PT76.3 65 gr/m²	260 °C	-	20 - 40	20 %					●		
	VEPTFE180 130 gr/m²	260 °C	●	-	100 %			●				
PTFE-coated woven fiberglass fabric	**G1X1 PTFE** 520 gr/m²	260 °C	-	1X1 mm open mesh	65 %				●			
	G4X4 PTFE 345 gr/m²	260 °C	-	4X4 mm open mesh	65 %				●			
SILICONED PAPER	**PS1F75** 90 gr/m²	240 °C		-		1 side	●					
	PS2F85 92 gr/m²	240 °C		-		2 sides	●					
	PS1F204/ MATTE 176 gr/m²	220 °C		-		1 side		●				
	PS1F210/ RAINBOW 176 gr/m²	220 °C		-		1 side						●
	PS1F265/ TWILL 203 gr/m²	220 °C		-		1 side					●	

Oven · High pressure autoclave · Vacuum infusion

V7PT80

80 µ Teflon-coated glass fabric

Used as a release film during vacuum moulding processes, it can be used with flat or very simple moulds. Available in adhesive version (V7PT80AD) to protect the moulds, panels, etc...

Can be used several times during manufacturing process in small and medium series.

+

Compatible with all types of resins.
Very good thermal stability 260°C.

1 | 1.53 m	30 | 50 m	75 µ 125 µ (incl. adhesive)	Max. 260 °C	140 gr/m²

V7PT125

125 µ Teflon-coated glass fabric

Used as a release film during vacuum moulding processes, it can be used with flat or very simple moulds. Available in adhesive version (V7PT125AD) to protect the moulds, panels, etc...

Can be used several times during manufacturing process in small and medium series.

+

Compatible with all types of resins.
Very good thermal stability 260°C.

1 m	30 m	125 µ 175 µ (incl. adhesive)	Max. 260 °C	250 gr/m²

V7PT140

140 µ Teflon-coated glass fabric

Used as a release film during vacuum moulding processes, it can be used with flat or very simple moulds. Available in adhesive version (V7PT140AD) to protect the moulds, panels, etc...

Can be used several times during manufacturing process in small and medium series.

+

Compatible with all types of resins.
Very good thermal stability 260°C.

1 m	30 m	140 µ 185 µ (incl. adhesive)	Max. 260 °C	290 gr/m²

V7PT250

Non porous PTFE coated glass fabric

Used as a release film during vacuum moulding processes, it can be used with flat or very simple moulds. Available in adhesive version (V7PT250AD) to protect the moulds, panels, etc...

Used for advanced composite manufactured under high temperature cures.

+ Adhesive version available.

1.53 m	30 m	220 µ 270 µ (incl. adhesive)	Max. 260 °C	470 gr/m²

V4PT76.3

Porous PTFE coated glass fabric peel ply

The most standard PTFE release peel ply designed to be used on direct contact with all the resins.

Usually used with the prepregs.

+ Leaves a fine glossy surface impression.

1 I 1.53 m	30 m	50 µ	Max. 260 °C	65 gr/m²

VEPTFE180

100% PTFE Film

Patinated PTFE film with one side coated with a silicone pressure sensitive adhesive. Used as a release film during vacuum moulding processes.

For mechanical and general applications, PTFE tape offers non-stick and low friction properties.

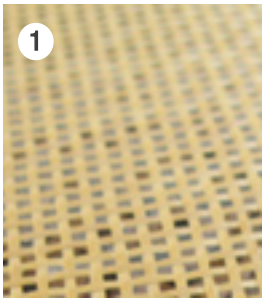
+ Good mechanical resistance.
Abrasion resistance.
Low friction properties.

1 m	30 m	130 µ 180 µ (incl. adhesive)	Max. 260 °C	130 gr/m²

Oven · High pressure autoclave · Vacuum infusion

G1X1 PTFE

Porous PTFE coated glass fabric open mesh

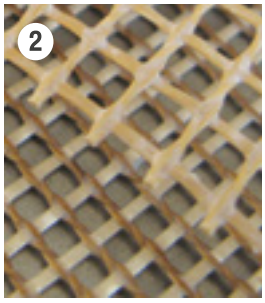


1x1mm or 4x4mm open mesh bleeder fabric based on a PTFE-coated woven fiberglass fabric.

Specifically designed for use in high pressure and high temperature moulding in Autoclave (260°C).

\+ This PTFE glass mesh is a non-transferring release agent. Controlled porosity allowing good air flow, especially in high pressure moulding in autoclave.

G4X4 PTFE



				Max.	
1	1.53 m	30 m	650 µ	260 °C	520 gr/m²
2	1 m	50 m	900 µ	260 °C	460 gr/m²

PS1F75

Non porous 1 side siliconed paper

Economic and eco-friendly, PS1F75 replaces fluoropolymer films or other release agents. PS1F75 is a stiff paper which provides a glossy release surface (one side) with all resin systems.

Its stiffness allows a very fast implementation.

\+ Glossy. Suitable with all resin systems.

			Max.	
1.60 m	200 m	75 µ	240 °C	90 gr/m²

PS2F85

Non porous 2 sides siliconed paper

Economic and eco-friendly, PS2F85 replaces fluoropolymer films and release agents. PS2F85 is a stiff paper which provide a glossy release surface with all resin systems, up to 240°C.

Its stiffness allows a very fast implementation.

\+ Glossy. Suitable with all resin systems.

			Max.	
1.60 m	200 m	78 µ	240 °C	92 gr/m²

PS1F204/ MATTE

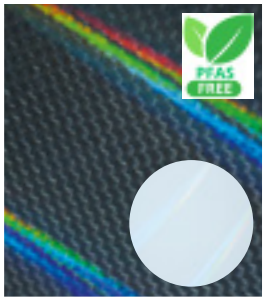
1 side siliconed paper- Matte finishing

Used as release interface, PS1F204/MATTE has only one release face.
Get a very matt and uniform finishing on the surface of the composite part.

Its stiffness allows a very fast implementation. + Suitable with all resin systems.

1.49 m	188 m	210 µ	Max. 220 °C	176 gr/m²

PS1F210/ RAINBOW



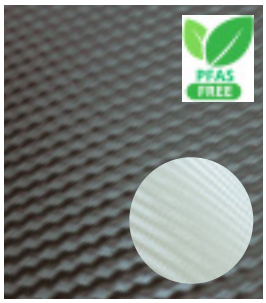
1 side siliconed paper- Rainbow finishing

Used as release interface, PS1F210/RAINBOW has only one release face.
Get a rainbow finishing on the surface of the composite part.

Its stiffness allows a very fast implementation. + Suitable with all resin systems.

1.49 m	217 m	210 µ	Max. 220 °C	176 gr/m²

PS1F265/ TWILL



1 side siliconed paper- Twill finishing

Used as release interface, PS1F265/TWILL has only one release face.
Get a twill effect finishing on the surface of the composite part.

Its stiffness allows a very fast implementation. + Suitable with all resin systems.

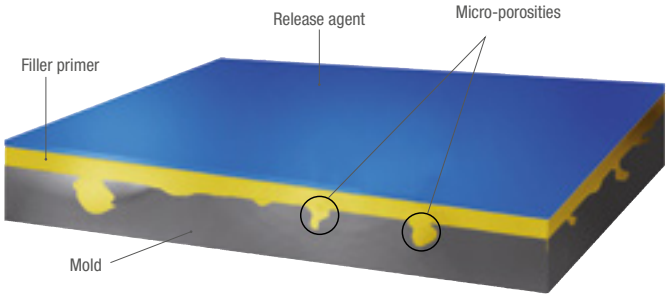
1.49 m	224 m	280 µ	Max. 220 °C	203 gr/m²

Oven · High pressure autoclave · Vacuum infusion

AEROSPACE RELEASE AGENTS

Zyvax®, exclusively distributed by Diatex since 1994, is the most powerful range of water-based release agents on the market.

Departure™: IPS 12-02-002-01 - **TakeOff™**: IPS 12-02-002-03



ZYVAX

A Chem-Trend Brand

Aerospace Release Agents

PFAS FREE

AEROSPACE RANGE

This aeronautical range includes semi-permanent liquid release agents, developed on an aqueous basis.
This range offers a new generation of high performance products for treatment and maintenance of moulds in autoclave and oven polymerisation applications.
Theses products are solvent- and alcohol-free, 100% water-based and the quality of our controls guarantees effective and eco-friendly release agents.

DIATEX, **ZYVAX®** exclusive distributor for aeronautics in Europe.
> AIRBUS & BOEING aeronautical approvals.
> AQMD approvals.

WATER-BASED Solvent-free

Zyvax® range brings you many advantages:
- Versatile products suitable for most resins
- Easy to use
- Very good thermal stability
- No mould clogging
- Respect for the environment

AERONAUTICAL APPROVALS

✓ **AIRBUS**
(IPS 12-02-002-01)
(IPS 12-02-002-03)
✓ **BOEING**

DEPARTURE is also available in wipes to guarantee a better application.
100 wipes dispenser (one wipe covers 1 m²).

TakeOff wipes

	Product	Cans	Use	Characteristics / Use
NEW	CLEANER 10W ™	4.5 Kg	Cleaner	Tool surface cleaner
	FRESH START ™	4 L	Cleaner	Fresh Start is effective in removing most contaminants & semi-permanent release coatings on both new & existing tools.
	MPP1006W ™	3.78 L	Sealer	Preparation and repair of tools (before the pore filler)
	PREFLIGHT ™	940 ml I 4 L	Tool surface conditioner	Protects & prepares the mould surface
	SEALER 1028W ™	5 Kg	Tool surface conditioner	Tool surface conditioner I protection
	DEPARTURE ™	500 ml I 4 L I Wipes	Release agent	Epoxy, polyamids & polybismaleimids, prepregs...
NEW	TAKEOFF ™	Wipes I 5 L I 200 L	Release agent	Prepregs I RTM I PEEK
NEW	825WB	5 Kg I 25 Kg	Release agent	Release agent to be used with phenolic resin
	1070W ™	1 Kg I 3 Kg I 19 Kg	Release agent	Epoxy I Prepregs I Silicone free

TakeOff ™. Departure ™.
AIRBUS Aeronautics approvals
Privileged partner of CHEMTREND in Europe*

ANCILLARIES

TANK

PRESSURIZED POT
ZSCTANK02L25

2 L tank
Max. pressure 2.5 bar

GUN

ZSCSPRAGUN03

0.3 mm nozzle
No hose inclued

WIPES

ZYAC-WIPE-CAN4L5

Wipes dispenser

Capacity: 60 wipes
Dimensions : 23.5 x 22 x 22 cm
Sold with a set of coloured labels for quick identification
(Wipe ON / Wipe OFF).

ZYAC-WIPE-REFILL3231

Wipes for release application

Can be impregnated for wiping on.Compatible with ZYAC-WIPE-CAN4L5.
Roll x 60 Wipes
Box x 6 Rolls

WIPE ON : Application
WIPE OFF : Wiping

PIPES

ZSCHOSE2M641

PU Duo 6 x 4 pipes

Blue / translucent
Lenght: 2 m

SPRAY MOP & WIPING OFF TOOLS

ZYAC-WIPE-ON-BOTTLEV

0.6 ml for spray mop tool

ZYAC-WIPE-ON-PAD40

Microfiber spray mop pad

40 cm - Velcro backside
Sold x 5 units

ZYAC-WIPE-ON-TOLL40

Spray mop tool

No bottle

ZYAC-WIPE-OFF-HANDLE

Telescopic handle for mop tool

100 - 170 cm

ZYAC-WIPE-OFF-MOP40

Microfiber pad for wiping off

40 cm

ZYAC-WIPE-OFF-FRAM40

Wiping off (without handle)

40 cm

10

SEALANT TAPES

DIATEX provides preformed sealants for the production of flexible seals. Sealant tapes are used to form a seal between the vacuum bagging film and the mould tool surface. Easy to implement. Removal without leaving residues.

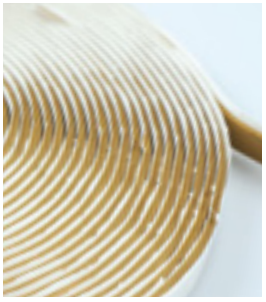
Compatible with most vacuum films and resins. Very good chemical resistance. Contact us for sealant tapes to be used up to 400°C.

Sealant tapes

	Low temp.	Diadrain MP Sealing	Low temp | Hyper tack	Medium Temperatures		Standard	High temp. | Soft	Very high temp.		Thermo-plastics
	LSM 6000	LSM 3000Flex	LSM 1310	LSM 4000	LSM 4200	SM 5127	LSM 7000	NEW LSM 8000	SM 5126	SM 5160
Rolls /box	22	8	22	30	22	40	22	28	32	24
Max.	90 °C	90 °C	110 °C	140 °C	140 °C	205 °C	210 °C	230 °C	232°C	399 °C
				✓	✓	✓	✓	✓	✓	✓
				✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓			

LSM6000

Sealant tape up to 90°C



Polyvalent sealant tape recommended for room temperature applications and able to undergo exothermic temperature up to 90°C.

Perfect for use on composite or metallic tools.

\+ Low tack.
Excellent adhesion.
Economic.

BEIGE

13 mm	13 m	3 mm	Max. 90 °C

LSM3000 Flex

Sealant tape for Diadrain MP application

One side Butyl tape adhesive protected by a LDPE film flexible and extensible protective overhang and able to undergo exothermic temperature up to 90°C.

Especially developed to be used with the DIADRAIN MP (Micro Porous Flat Vacuum Chanel).

\+ Also used as a «patch» for vacuum bagging films.
High tack.
Excellent adhesion

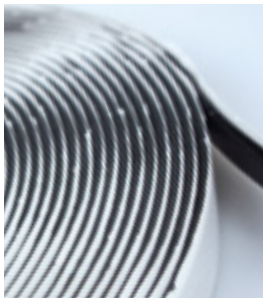
GREY

50 mm	10 m	1.5 mm	Max. 90 °C

Oven · High pressure autoclave · Vacuum infusion

LSM1310

Sealant tape up to 110°C



Polyvalent and economic sealant tape recommended for medium temperature cures up to 110°C.

Economic and ideal for use on composite or metallic tools.

+

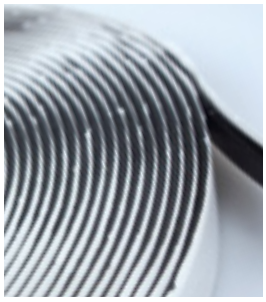
Easy to release from the tools once the mould has cooled down to room temperature.
High tack.
Excellent adhesion.

BLACK

12 mm	15 m	2.5 mm	Max. 110 °C

LSM4000

Sealant tape up to 140°C



Polyvalent sealant tape recommended for room temperature applications and able to undergo exothermic temperature up to 140°C.

Economic and ideal for use on metallic composite tools.
Especially developed for wind blade producers working in high humidity and high temperature environment.

+

Easy to release from the tools once the mould has cooled down to room temperature.
No contamination on the mould surface.

BLACK

10 mm	15 m	2 mm	Max. 140 °C

LSM4200

Sealant tape up to 140°C

polyvalent sealant tape recommended for room temperature applications and able to undergo exothermic temperature up to 140°C.

Ideal for use on metallic composite tools.

+

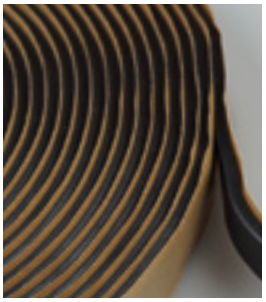
High tack.
Easy to release from the tools.

BLACK

12 mm	15 m	2.5 mm	Max. 140 °C

LSM5127

Sealant tape up to 205°C



Polyvalent and economic sealant tape recommended for high temperature cures up to 205°C (autoclaves cycles).

Ideal for use on composite or metallic tools

+

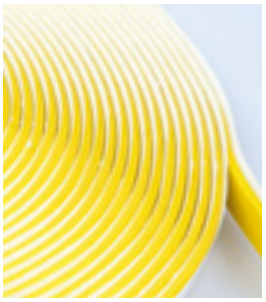
Easy to release from the tools once the mould has cooled down to room temperature.

BLACK

12.7 mm	7.62 m	3.2 mm	Max. 205 °C

LSM7000

High temperature sealant tape up to 210°C



Polyvalent and economic sealant tape recommended for high temperature cures up to 210°C (autoclaves cycles).

Economic and ideal for use on composite or metallic tools.

+

Easy to release from the tools once the mould has cooled down to room temperature.

YELLOW

12 mm	12.5 m	3 mm	Max. 210 °C

LSM8000

Very high temperature sealant tape up to 230°C

Polyvalent sealant tape recommended for high temperature curing up to 230°C (autoclave cycles).

Very high performance product, ideal for use on composite or metal tools, “bag to tool” or “bag to bag”

+

Can be easily removed without polluting the surface, after the tool has cooled.

BLACK

12 mm	15 m	3 mm	Max. 230 °C

Oven · High pressure autoclave · Vacuum infusion

SM5126

High temperature sealant tape up to 232°C

Polyvalent and economic sealant tape recommended for high temperature cures up to 232°C (autoclaves cycles).

Ideal for use on composite or metallic tools

\+

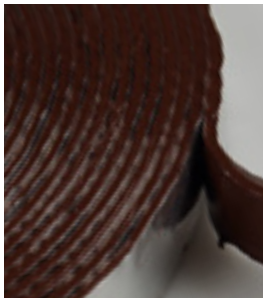
Easy to release from the tools once the mould has cooled down to room temperature.

DARK GREY

12.7 mm	9.15 m	3.2 mm	Max. 232 °C

SM5160

Very high temperature sealant tape up to 399°C



Polyvalent and economic sealant tape recommended for high temperature cures up to 399°C (autoclaves cycles).

Ideal for use on thermoplastic or metallic tools.

\+

Easy to release from the tools once the mould has cooled down to room temperature.

BROWN

12.7 mm	9.15 m	3.2 mm	Max. 399 °C

FLASH TAPES

11

DIATEX provides a range of adhesive tapes for protection, masking, connection and jointing with very good chemical and mechanical characteristics.

Flash tapes

Standard use	High deformability	High temperatures	High temperatures	Double side Vacuum infusion	Double side Vacuum infusion
K7666	**PTFE-2**	**K7338**	**K6337**	**RAVER400A**	**RAPES-FR160A**
Polyester I Silicone	PTFE I Silicone	Polyimide I Silicone	Polyimide I Acrylic	Glass screen I Acrylic	Polyester I Acrylic
204 °C	260 °C	300 °C	300 °C	180 °C	175 °C

K7666

204°C flash tape

Manufactured from polyester film, coated with high performance silicone adhesive, K7666 pressure sensitive tapes are used for multi-purpose functions : holding down vacuum bagging materials, thermocouple wires, masking-off, protection.

Can be used in a range of applications including vacuum moulding or vacuum infusion, in oven or autoclave.

\+ Good chemical resistance.

BLUE

13 I 25 I 50 I 100 mm	66 m	63 I 80 I 165 µ (incl.adhesive)	Max. 204 °C	Elongation 100 %

PTFE-2

260°C flash tape

Manufactured from PTFE release film, coated with high performance silicone adhesive, this tape can be used in a range of high temperature applications : vacuum moulding or vacuum infusion, in oven or autoclave.

Can be used in a range of high temperature applications : vacuum moulding or vacuum infusion, in oven or autoclave.

\+ The PTFE film makes this flash tape released with all type of resins : it works like a semi permanent tape.

GREY

25 I 50 mm	33 m	89 µ (incl.adhesive)	Max. 260 °C	Elongation 150 %

Oven · High pressure autoclave · Vacuum infusion

K7338

300°C flash tape

Manufactured from polyimid film, coated with high performance silicone adhesive, K7338 pressure sensitive tapes are used for multi-purpose functions : holding down vacuum bagging materials, thermocouple wires, masking-off and protection.

Can be used in a range of high temperature applications : vacuum moulding or vacuum infusion, in oven or autoclave.

\+ Good chemical resistance.

ORANGE

13 I 25 mm	33 m	63 µ (incl.adhesive)	Max. 300 °C	Elongation 70 %

K6337

300°C flash tape

Manufactured from polyimid film, coated with high performance acrylic adhesive, K6337 pressure sensitive tapes are used for multi-purpose functions : holding down vacuum bagging materials, thermocouple wires, masking-off and protection.

Can be used in a range of high temperature applications : vacuum moulding or vacuum infusion, in oven or autoclave.

\+ Good chemical resistance.

ORANGE

25 I 50 mm	33 m	63 µ (incl.adhesive)	Max. 300 °C	Elongation 70 %

RAVER400A

180°C 2-sided porous adhesive /Glass screen tape

100% non hazardous and solvent free, this adhesive tape is the best solution to set safely the fibers. With RAVER400A you know exactly the quantity of glue used per m² more you can control this quantity which is not the case with spray.

Made to set fibers, consumables and core materials during vacuum Infusion process or vacuum molding process.

\+ 100% non hazardous.
Solvant free.
Glue 100% soluble with resins : after infusion, the glass screen works like a reinforcement.

WHITE

25 I 50 mm	100 ml	450 µ	Max. 180 °C	135 gr/m²

RAPES-FR160A *175°C porous adhesive tape*

Acrylic stripe coated impregnable polyester tape of 43gr/m². The acrylic adhesive is not covering the whole surface of the supporting base.

Recommanded for vacuum moulding, RTM and vacuum infusion processes.

+

Excellent chemical resistance.

WHITE

25 mm	50 ml	160 µ (incl. adesive)	Max. 175 °C	91 gr/m²

Oven · High pressure autoclave · Vacuum infusion

THERMOSHRINKABLE FABRICS & FILMS

DIATEX provides thermoshrinkable peel plies and thermoshrinkable films in bands or full width. Used for compacting and hot drying of the laminate.

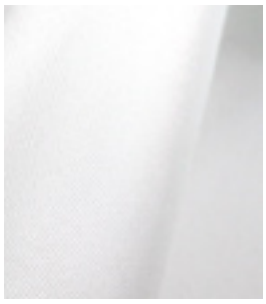
Product	Weight	Shrinkage at 150°C	Shrinkage at 200°C	Beginning of shrinkage	Characteristics
DIATEX 1500	85 gr/m²	10 %	16 %	100°C	PES 160 µ fabric
DIATEX 2000	125 gr/m²	11 %	15 %	100°C	PES 280 µ fabric
Filament 160	36 gr/m²	5 %	15 %	80°C	PP 40 µ film

ETFE and FEP - available in thermoshrinkable .
Under request.

Thermoshrinkable fabrics & films

DIATEX1500

Thermoshrinkable peel ply



WHITE

Technical peel ply designed to be used with epoxy and phenolic resins. This standard thermoshrinkable fabric is used in direct contact with the laminate to compact it during heating process . DIATEX1500 is used as a peel ply : the fabric leaves a rough surface impression for primary and secondary bonding.

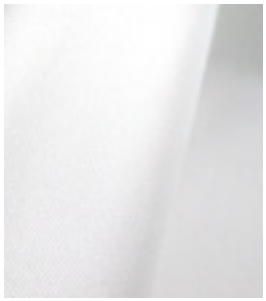
Perfect for winding applications.

+ Nontransfering release agent. Available in tapes.

	25 I 30 I 50 75 I 100 mm	100 m	160 µ	Max. 200 °C	85 gr/m²

DIATEX2000

Thermoshrinkable peel ply



WHITE

Thermoshrinkable fabric is used in direct contact with the laminate in order to compact it during heating process. DIATEX2000 is used as a peel ply : the fabric leaves a rough surface impression for primary and secondary bonding. Do not use DIATEX 2000 with polyester resins.

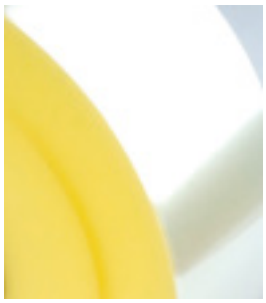
Perfect for winding applications.

+ Nontransfering release agent. Available in tapes.

	2.5 à 195 cm	100 m	220 µ	Max. 200 °C	125 gr/m²

FILAMENT 160

Thermoshrinkable film



TRANSPARENT

Technical thermoshrinkable film designed to be used with epoxy, polyester and phenolic resins. After the curing process you can easily remove FILAMENT 160 which is a release film. FILAMENT 160 is not designed to spin dry the laminate. You can use thermoshrinkable fabrics DIATEX1500 & DIATEX2000 for this purpose.

This standard thermoshrinkable film is used in direct contact with the laminate in order to compact it during heating process.

+ Leaves a nice and shine surface.

	2.5 I 5 7.5 I 10 cm	1000 m	40 µ	Max. 160 °C	36 gr/m²

Oven · High pressure autoclave · Vacuum infusion

REUSABLE SILICONE MEMBRANES

Debulking applications & vacuum manufacturing
Bi-component (RTV) silicone
Mono-component (HTV) silicone
Ancillaries

Vacuum table

Reusable silicone membranes

p.109

CONFECTION & KITTING

DIATEX provides a complete range of reusable membranes for infusion, debulking and vacuum moulding in ovens or autoclaves. This range is composed of RTV silicone spray, vulcanized or raw HTV silicone rolls and rubber.

Reusable silicone membranes range

	DEBULKING APPLICATIONS & VACUUM MANUFACTURING			BI-COMPONENT SILICONE (RTV)		MONO-COMPONENT SILICONE (HTV)			
	PARABLOND	ELASTIBAG	RUBBERBAG	DIASIL 20	DIASIL 49	DIASIL 45	DIASIL 50	DIASIL 60	DIASIL 80
	80 °C	80 °C	100 °C	200 °C	200 °C	225 °C	225 °C	225 °C	225 °C
SHORE Hardness	45	40	40	20	49	45	50	60	80
Vulcanized	●	●	●			●	●	●	●
Non vulcanized				●	●	●	●		●

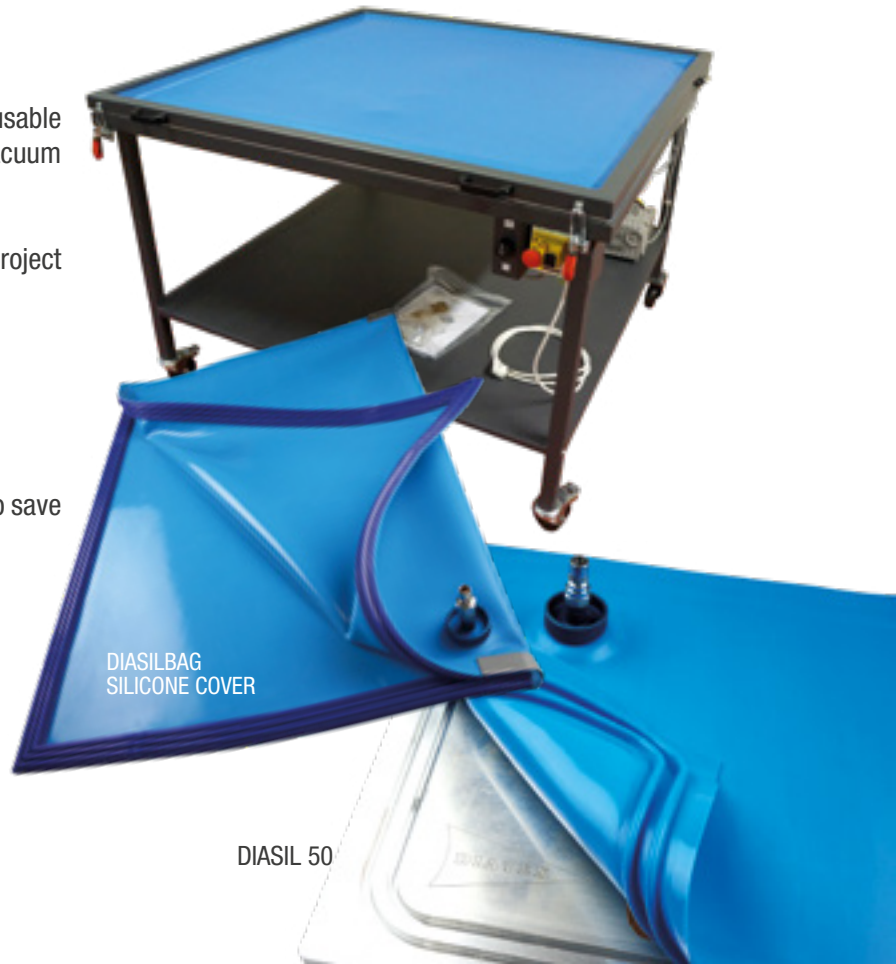
* DIASIL 45 & 60 / ELASTIBAG / PARABLOND / RUBBERBAG are sold by rolls or LM.
DIASIL 50 is only used for confection.

DIATEX provides a complete range of reusable membranes for infusion, debulking and vacuum moulding in ovens or autoclaves.

We provide a customized solution to each project with our wide range of products :
- Extra wide reusable membranes (Elastibag, Rubberbag)
- Bi-component silicone spray
- Mono-component silicone

Increase your productivity with reusable tools to save time and compaction work.

Oven — High pressure autoclave — Vacuum infusion



DIASIL 50

PARABLOND

High elongation film for debulking

NATURAL RUBBER

High elasticity rubber film with a very high mechanical resistance designed for debulking operations, particularly when applied to awkward shapes with deep recesses or undercuts. Much better performance compared to normal bagging film with poor elongation.

This film is recommended for debulking operations of prepregs.

\+ Reusable when using LSM6000 sealant tape.
Exceptional conformable characteristics.

1.40 I 1.60 m	10 m	1 mm	Max. 80 °C	950 gr/m²

ELASTIBAG

High elongation film for debulking

YELLOW

High elasticity rubber film with very high mechanical resistance designed for debulking operations, particularly when applied to awkward shapes with deep recesses or undercuts. Much better performance compared to normal bagging film with poor elongation.

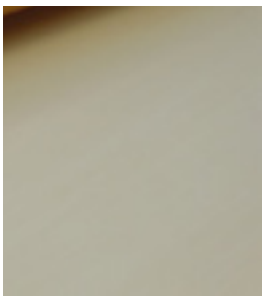
This film is recommended for debulking operations of the prepregs.

\+ Reusable when using LSM6000 sealant tape.
Exceptional conformable characteristics.

1 I 2 m	Upon request	0.55 mm	Max. 80 °C	539 gr/m²

RUBBERBAG

High elongation film for debulking



NATURAL RUBBER

High elasticity rubber film with very high mechanical resistance designed for debulking operations, particularly when applied to awkward shapes with deep recesses or undercuts. It allows avoiding vacuum bag pleats. Much better yield compared to normal bagging film with poor elongation.

This film is recommended for debulking operations of the prepregs.

\+ Available up to 4m width
Reusable when using LSM6000 sealant tape.

Up to 4 m	Upon request	1 mm	Max. 100 °C	950 gr/m²

HTV SILICONE

DIASIL 45

PURPLE

Mono-component silicone

High performance purple HTV silicone membrane, calendered at 1.5mm thickness. Specifically developed to manufacture reusable membranes for vacuum molding in autoclave, out of autoclave, or inflatable bladders.

Perfect for compaction table, DIASILBAG and inflatable bladders.

+ Very high elongation properties. Available cured or uncured.

1.60 m	20 m	1.5 I 2.25 mm	Max. 225 °C	1680 gr/m²

DIASIL 50

BLUE

Mono-component silicone

High performance blue HTV silicone membrane, calendered at 1.5mm thickness. Specifically developed to manufacture reusable membranes for vacuum molding in autoclave, out of autoclave, or inflatable bladders.

Fast curing allowing productivity gain in its implementation (reduces usage time of hot means).

+ Available cured or uncured. Uncured version requires a 10 minutes cure at 175°C in autoclave in order to achieve the mechanical properties.

1.60 m 3.00 m	10 m	1.5 I 2.3 mm 1.5 mm	Max. 225 °C	1710 gr/m²

DIASIL 60

TRANSLUCENT

Mono-component silicone

DIASIL 60 is a translucent membrane calendered at 0.5mm thickness.
It has very good conformable characteristics, particularly when applied to awkward shapes with deep recesses or undercuts.

It enables the moulding of complex forms.

+ Compatible with most resin systems.
Very high mechanical and thermal resistance.

1.20 m	10 m	0.5 mm	Max. 225 °C	650 gr/m²

DIASIL 45

DIASIL 80

Mono-component silicone

BLUE

High performance blue HTV silicone membrane, calendered at 1.5mm thickness. Specifically developed for the manufacture of reusable membranes for vacuum molding in autoclave, out of autoclave, or inflatable bladders.

Fast curing allowing productivity gain in its implementation (reduces usage time of hot means).

\+

Only available in cured version. Due to its high hardness shore, you can realize local intensifiers. Perfect to use with DIASIL 50.

1,40 m	5 m	1,5 mm	Max. 225 °C	1815 gr/m²

HTV High Temperature Vulcanization ancillaries

ZIPSIL

ZIPSIL 35

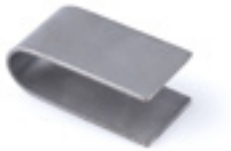
ZIPSIL 28 SEALING SYSTEM

ZIPSIL Silicone seal

Available by unit or 2 pieces set (top and bottom).

REFERENCE		
ACSIL-HTV-ZIPSIL35	35 mm	Roll x 25 ml (= 12.5 ml of ZIPSIL both top & bottom)
ACSIL-HTV-ZIPSIL35-L	35 mm	Right angle (top and bottom set)
ACSIL-HTV-ZIPSIL28M		25 ml reel
ACSIL-HTV-ZIPSIL28F		25 ml reel

U Clamp



Stainless steel closing U Clamp for ZIPSIL 35

Reinforcement for the manufacturing of DIASIL BAG.

REFERENCE		
ACSIL-HTV-ZIPSIL35-U	35 mm	Sold by unit

L Profile

Silicone L profile

Reinforcement for the manufacturing of DIASIL BAG.

REFERENCE		
ACSIL-HTV-JOINTL2525	25 X 25 mm	25 ml reel

SILICONE STRUCTURAL SEAL

Silicone structural seal

For the sealing of silicone tools.

REFERENCE		
ACSIL-HTV-PYRA-2020	20 X 20 mm	25 ml reel

REFERENCE		
ACSIL-HTV-PYRA-0406	4 X 6 mm	25 ml reel

Glue for silicone seals

Silicone Elastomer based adhesive, curing at room temperature.
Compatible with composite or metallic moulds.
Hardness 30 Shore A / Immediate tack.

REFERENCE
CO-RD-COLLE-E43/310
-50°C / /-58°F to +180°C /356°F Short term working : 250°C
Cartridge x 310 ml

All mould carrier primer

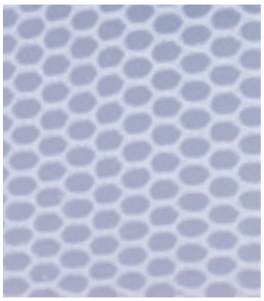
REFERENCE	
CO-RD-PRIMER-G79/150	150 ml
CO-RD-PRIMER-G79/40	40 ml

13

RTV SILICONE COMPATIBLE WITH SPRAYING EQUIPMENT

DIASIL 20

2-component silicone ideal for Polyester/Vinylester



Two component cured silicone rubber very easy to use with spray application. DIASIL 20 is translucent purple in order to easily see the resin creep. Part A is translucent and Part B is purple.

Specifically developed to manufacture reusable membranes for vacuum moulding, vacuum infusion or inflatable bladders (max. pressure : 5 bars).

+

The viscosity of DIASIL 20 facilitates the spraying with SC2 and SC4 machines.
It's possible to add a thixotropic agent to DIASIL 20 to improve vertical spraying.

TRANSLUCENT PURPLE

Sprayable silicone 1:1 poly-addition

ACSIL-RTV-DIASIL20

Sold by 25L of A + 25L of B

3' Gel time

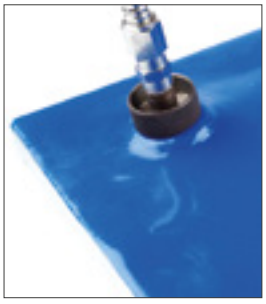
200°C Max.

Elasticity **350%**

Shrinkage **< 0.1%**

DIASIL 49

2-component silicone rubber ideal for autoclave



DIASIL 49 is a sprayable, polyaddition-curing liquid silicone rubber which is very easy to use. DIASIL 49 is blue in color. Part A is translucent and Part B is tinted blue. Compatible with DIASIL thixotropic agent as well as DIASILCOAT.

Especially developed for making reusable membranes for vacuum moulding in autoclave or out-of-autoclave processing as well as for inflatable bladders.

+

Excellent resistance to compression.
The viscosity of DIASIL 49 allows a perfect spray-application with the SC2 Mini, SC2 and SC4 coating machines.

BLUE

Bi-component silicone poly-addition

ACSIL-RTV-DIASIL49B1
ACSIL-RTV-DIASIL49B5

Sold by 5 L + 5 L and 25 L + 25 L

5' Gel time

200°C Max.

Elasticity **250%**

Shrinkage **> 0.1%**

Diasilcoat

Bi- and tri-component varnish

ACSIL-DIASILCOAT-1L
Sold by 2 x 0.5 L

DIASILCOAT drastically reduces the friction coefficient of silicone surfaces. It is extremely flexible and does not stiffen its underlay. It reduces «blocking» on face-to-face displays and reduces soiling and pollution of silicone surfaces. The addition of a third component further enhances DIASILCOAT's performance.

To be used with SC4 equipment

Thixo agent

2% Ratio

ACSIL-RTV-THIXO00284
Sold by 100 ml

Delay agent for Diasil 20 & Diasil 49

Diasil Delay Agent
Silicone RTV inhibitor

ACSIL-RTV-DDA100
Sold by 100 ml

Oven · High pressure autoclave · Vacuum infusion

Spraying equipment

SC2 Mini

COMPATIBLE WITH Diasil 20 Diasil 49

This small compact machine is easily removable. With a capacity of 5 L of silicone and a manually operated spray gun, SC2 mini is perfect to make small diaphragms and if portability is required.

SC2

COMPATIBLE WITH Diasil 20 Diasil 49

2-component SYSTEM Mixing and spraying silicone equipment 1:1.

SC3

3-component system mixing and spraying silicone 1:10.

SC4

COMPATIBLE WITH Diasil 20 Diasil 49

3-component system mixing and spraying silicone 1:1.
This equipment enables you to add a non-thixotropic agent or an inhibitor for vertical wall spraying.

EQUIPMENT ANCILLARIES

STATIC MIXER

ACSIL-RTV-MIX00268

BAG
x 10 mixers

SPRAY NOZZLE

ACSIL-RTV-BUSE263-1

Sold by unit

QUICK CONNECTORS

CO-MP-210918

Sold by unit

CO-MP-250918

Sold by unit

MOULD ANCILLARIES

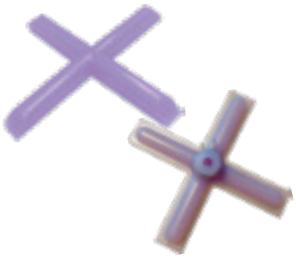
Resin channel

	REFERENCE	
RESIN CHANNEL	ACSIL-RTV-CANAL00253	Sold by 1m

Resin channel + insert

	REFERENCE	
RESIN CHANNEL WITH INSERT	ACSIL-RTV-CANAL00254	Sold by 1m
	ACSIL-RTV-CANAL00255	Sold by 0.2 m

X-shape resin channel



	REFERENCE	
X-SHAPE RESIN CHANNEL	ACSIL-RTV-CANAL00275	Sold by unit
X-SHAPE RESIN CHANNEL+ INSERT	ACSIL-RTV-CANAL00290	Sold by unit

Profile & plug

	REFERENCE	
PLUG FOR RESIN CHANNEL Diameter : 10mm	ACSIL-RTV-STOP3860	Sold by unit

	REFERENCE	
SILICONE PROFILE FOR RESIN CHANNEL diameter : 10 mm	ACSIL-RTV-PROFIL1012	Roll x 25 lm
SILICONE PROFILE FOR RESIN CHANNEL diameter : 14 mm	ACSIL-RTV-PROFIL1416	Roll x 25 lm

Silicone foam

	REFERENCE	Ø
SILICONE FOAM CORD	ACSIL-RTV-CORD00256	10 mm

For modeling the resin channel

VACUUM ANCILLARIES

	REFERENCE	
VACUUM CHANNEL FOAM SEAL	ACSIL-RTV-PROFIL0260	Roll x 25 lm

	REFERENCE	
2-SIDED ADHESIVE TAPE	ACSIL-RTV-SCOTCH	Roll x 50 lm

IMPS High temperature insert

	REFERENCE	
Compatible with 12 mm injection fitting & IMPS pressure sensor	**ACSIL-RTV-INSER00252**	Sold by unit

Injection fittings for resin channel

	REFERENCE	
12 mm injection fitting For 10-12 PEHD pipe	**ACSIL-RTV-RACC00269**	Sold by unit
Quick connector for 10-12 pipe	**CO-XM-0407**	Sold by unit

Silicone injection fittings for resin channel

Fittings for RTV silicone membranes
- made of silicone
- more economical
- easier implementation (no more metallic fittings)

	REFERENCE	
12mm SILICONE FITTING	**ACSIL-RTV-INSER00651**	Sold by unit
16mm SILICONE FITTING	**ACSIL-RTV-INSER00652**	Sold by unit

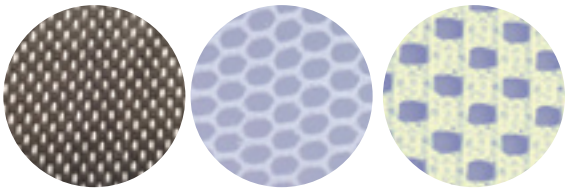
Calibrated wax for mould construction

610 x 305 mm

REFERENCE	V	
CO-CC004-005	**0.5** mm	Box X 10 sheets
CO-CC004-010	**1** mm	Box X 8 sheets
CO-CC004-015	**1.5** mm	Box X 8 sheets
CO-CC004-020	**2** mm	Box X 8 sheets
CO-CC004-025	**2.5** mm	Box X 6 sheets
CO-CC004-030	**3** mm	Box X 4 sheets
CO-CC004-040	**4** mm	Box X 4 sheets
CO-CC004-050	**5** mm	Box X 3 sheets

REFERENCE		
CO-YELLOWWAX650	Filling wax	Pack X 650 g

Knitted reinforcements

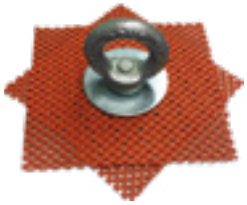


THIN	MEDIUM	THICK
F5991	**F1862PS**	**F2373PSHV**

105 g/m²
Polyester 100%
Soft finish

F1862 WHITE

Available by rolls of 5, 10 or 150 cm width



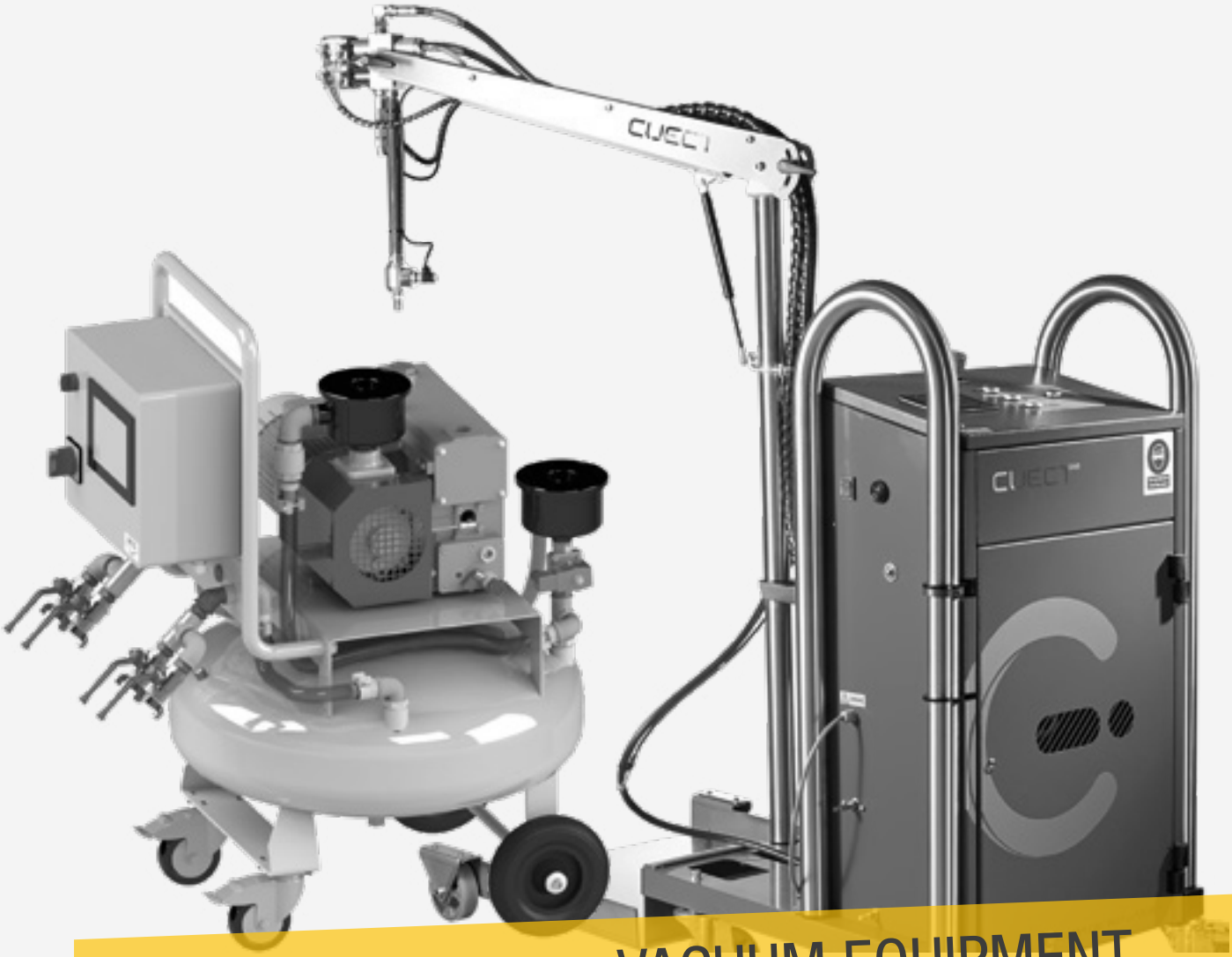
	REFERENCE	
LIFTING KIT	**SC00300**	Sold by unit

ALSO

REPAIR KIT

Silicone Elastomer based adhesive, curing at room temperature.
Compatible with composite or metallic moulds.
Hardness 30 Shore A / Immediate tack

CO-RD-COLLE-E43/310



VACUUM EQUIPMENT

Vacuum equipment

In addition to developing a specific range of products for the industry of composite materials in close collaboration with its partner MIL'S, DIATEX also offers a complete range of pumps with lubricated paddles and vacuum plants with different vacuum levels adapted to vacuum applications. DIATEX also proposes measuring devices for monitoring pressure, temperature and leakage.

VACUUM PUMPS

PS Range

- Dedicated to small composite parts
- Oil less
- Very economical
- Compact and independant vacuum plant
- Noiseless
- Range from 3 to 10 m3/h

Automatic vacuum pumps

The automatic vacuum pumps, are perfectly adapted for to composite industry :

- vacuum moulding
- vacuum infusion
- RTM or RTM LIGHT
- Lubricated rotary vanes vacuum pumps
- Standardization of spare parts for an easier maintenance
- Possibility to have a customized protective cover
- Continuous running from atmospheric pressure to end vacuum
- Air cooling
- Standard motor coupling
- P 55 Motor - F class

Normal capacity L.min^{-1} I 50Hz		Power pump (W)	End vacuum mbar	Speed ter.min-1 I 50Hz	Weight (Kg)
PS					
2V	47	200	-900	1465	7
5V	81	170		1465	9
7V	106	250		1425	9
12V	168	360		1425	9
5VH	58	170	-980	1465	9
7VH	79	250		1425	9
12VH	123	360		1425	9

Normal capacity m3-h I 50Hz		Power pump kW I 50Hz	End vacuum mbar I HV	Weight (Kg)
ROTOMIL'S				
K04	4	0.12	< 2	5.4
K09	8	0.25		10
K12	12	0.45		14
EVISA				
E25.R	28	0.75	6.10^{-1}	39
E40.R	44	1.10		52
E65.R	68	1.50	6.10^{-2}	67
E100.R	100	2.20	5.10^{-1}	67
E150.R	132	3.00	6.10^{-1}	154
E200.R*	198	4.00		140
E300.R*	288	5.50		162

*ATEX version available for explosible atmospheres regarding to INERIS Certificate (standard temperature security).

Oven | High pressure autoclave | Vacuum infusion | RTM

1-LEVEL SYSTEM VACUUM PLANTS

MINIVAC & INDUSVAC

1 vacuum level system

The vacuum tank allows a better optimisation of the vacuum level and an economy of the vacuum pump.

- Compact and independent vacuum plant
- Lubricated rotary vanes vacuum pump
- Regulation by mechanical vacuum switch
- Starting board and integrated hour meter
- Different available regulation modes

Minivac

Indusvac Compact E40

Indusvac Compact E65

		Nominal capacity m3-h I 50Hz	Power pump kW I 50Hz	Receiver capacity	Weight (Kg)
MINIVAC & INDUSVAC	MINIVAC K08	8	0.25	70 L	56
	MINIVAC 1 PS 12 VH	10	0.36		36
	MINIVAC 1 E25	30	0.75		85
	INDUSVAC 1 E25	30	0.75	250 L	114
	INDUSVAC 1 E40	47	1.10		127
	INDUSVAC 1 E65 *	65	1.50		155
	INDUSVAC 1 E100 *	96	2.20	500 L	161
	INDUSVAC 1 E200 *	190	4.00		280
	INDUSVAC 1 E300 *	288	5.50		370

*ATEX version available for explosible atmospheres regarding to INERIS Certificate (standard temperature security).

2-LEVELS SYSTEM VACUUM PLANTS

COMPOSITVAC
2 vacuum levels system

These vacuum plants delivered 2 different vacuum levels with only one vacuum pump :
- One vacuum for close the mould.
- One vacuum to assist the injection.

The vacuum tank allows a better optimisation of the vacuum level and an economy of the vacuum pump. The 2 vacuum levels are adjustable in function of the resin systems used and the applications. The vacuum plants COMPOSITVAC are design to be used with the most RTM machines.

Compositvac fixe
E65 - E100

Compositvac E25

Compositvac mobile
E40 - E65

Compositvac
mobile E100

Available with
WIDE SCREEN

		Nominal capacity m3-h | 50Hz	Power pump kW | 50Hz	Receiver capacity	Weight (Kg)
COMPOSITVAC	COMPOSITVAC MOBILE E25	30	0.75	70 L	120
	COMPOSITVAC MOBILE E40	47	1.10	250 L	245
	COMPOSITVAC MOBILE E65	65	1.50		265
	COMPOSITVAC MOBILE E100	100	2.20	500 L	161
	COMPOSITVAC FIXE E65	65	1.50	500 + 80	260
	COMPOSITVAC FIXE E100	96	2.20		280

Oven · High pressure autoclave · Vacuum infusion · RTM

RESIN CATCHPOTS

For RTM and Infusion

Capacity: 2L

CO-XE-0213
MAX. T°: 100°C

2 x 6 mm resin inlets / 1 x 1/4" Geka vacuum connector

- ✓ Stainless steel with clear acrylic lid and EPDM seal
- ✓ Geka connector
- ✓ Undrilled tank - Clear lid

Capacity: 8L

For RTM and Infusion

CO-XE-0500
MAX. T° : 80°C

3 x 12 mm resin inlets
1 x 10 mm 1/4"vacuum connector for 10/12 pipe

Base mounted on wheels

Capacity: 30L

CO-XE-0218-02
MAX. T° : 100°C

1 GEKA vacuum connector / 5 x 10 mm resin inlet connectors

- ✓ Clear lid

NEW Base mounted on wheels

Capacity: 50L

CO-XV-0500-99-009
T° MAX. : 100°C

1 GEKA vacuum
5 X 12 mm resin inlet connectors

- ✓ Clear lid

EXAMPLE
with CO-XE-0213-BASE

Capacity: 17L

Perfect for resin degassing before infusion

CO-XE-620006
ROOM T°

⌀ 290 x H 380 / 1/4"vacuum connector

- ✓ 1 vacuometer
- ✓ 1 isolation valve
- ✓ 1 unloading valve

Capacity: 78L

Available with see-through lid

CO-XE-618537
MAX. T° : 100°C

⌀ 500 x 400 ID

- ✓ 1 vacuometer
- ✓ 1 isolation valve
- ✓ 1 unloading valve

CO-XE-0013-SUPPORT
Base for 2L resin holding tank

Stainless steel base for CO-XE-013 resin holding tank.

CUSTOM-BUILT EQUIPMENT

Vacuometers

ACVACU100-1/2M
1/2 male
⌀100 mm
Vacuometer

ACVACU63-1/4M
1/4 male
⌀63 mm
Vacuometer

ACVACU63-1/4M-CUP
Vacuometer
+ Suction cup

ACVACU76 ELEC-1/2M
Digital vacuometer

Electric cutter

MACUTTER/ELEC

Lightweight & ergonomical electric scissors, designed to reduce wrist and hard strain for cutting of light fabrics (<170g/m²).
Suitable with peel plies, separated films and bagging films, net bleeders, Infuplex and Vacuopeel.
Kit including rechargeable DC battery & charger.

Infrared thermometer

MATHERMO/IR3

Measures the temperature of RTM equipment and resin before the injection starts.
Digital laser
°C and °F values

Leak detector

MADETECT10

215 x 50 x 40 mm soft carrying case.
Adjustable sensibility 50 dB Min.
detectable sound pressure 1 nbar (in the 25-45 kHz range).
9V IEC 6LF22 Battery.
260 g - Without battery

Leak detector

ACVAKTEST

Allows you to check the sealing of your assembly, whether for vacuum molding or vacuum infusion.

VACUUM & TEMPERATURE SENSOR

NEW

ACVACU/VACPUC

Diatex is the exclusive VACPUC distributor for Europe and North Africa.

Wireless and battery-free vacuum and temperature sensor

A wireless and battery-free pressure and temperature sensor for the composites manufacturing industry.

The easiest solution to measure the pressure in your infusion mould or vacuum mould.

It has a single sensor to check the tightness of your vacuum bag before/during the process and control the exothermic peak at the end of the process.

- You can measure pressure and temperature without piercing your vacuum bag film
- The pressure range is 0 to 1200 mbar absolute
- Maximum operating temperature up to 120°C / 250°F
- It can record the history of readings
- A free app is available for Android and iPhone users

LEARN MORE

NEW

LEARN MORE

Micro-Porous pouch

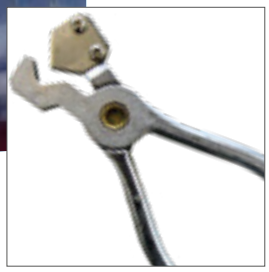
The use of Micro-Porous Pouches provides optimum protection for Vacpucs while guaranteeing perfect readability.
Air permeable but not resin permeable.

ACVACU/VACPUC-POUCH

PIPES & HOSES

Metallic spiral PVC hose
Silinox
Silicone tubes
PEBD / PEHD / PTFE pipes
Reinforced PVC pipes

Pipes & hoses



Cutting clamp

Allows easy cutting of all reinforced PVC hoses.
Not to be used with METALLIC SPIRAL hose.

ACOUPE/TUBE

Metallic spiral PVC hose

PERFECT FOR VACUUM SYSTEMS

⌀ 20 mm nut available

REFERENCE	⌀ int.	⌀ ext.			MATERIAL
ACTUB-PVCSPI 12-18	12 mm	18 mm	30 ml	80°C max.	PVC
ACTUB-PVCSPI 20-27	20 mm	27 mm	30 ml	80°C max.	PVC

Silicone Tubes

FOR AUTOCLAVE — SILICONE pipe + Spring

FOR OVEN — SILICONE Pipe

REFERENCE	⌀ int.	⌀ ext.			3 bar ext.
ACTUB-SILR10-18	10 mm	18 mm	5 ml max.	200°C	
ACTUB-SIL04-08	4 mm	8 mm	25 ml Reel	220°C	-
ACTUB-SIL06-12	6 mm	12 mm		220°C	
ACTUB-SIL07-13	7 mm	13 mm		220°C	
ACTUB-SIL09-16	9 mm	16 mm		220°C	
ACTUB-SIL10-18	10 mm	18 mm		220°C	
ACTUB-SIL10-23	10 mm	23 mm		220°C	

PEBD PEHD PTFE Pipes

Can be used as resin distributor or vacuum line

REFERENCE	⌀ int.	⌀ ext.			MATERIAL	Service pressure(bar) at 23°C	Rupture pressure (bar) at 23°C
ACTUB-PEHD08-10	8 mm	10 mm	100 ml	max. 90°C	PEHD	18	55
ACTUB-PEHD10-12	10 mm	12 mm	100 ml	max. 90°C	PEHD	15	45
ACTUB-PTFE10-12	10 mm	12 mm	25 ml	max. 260°C	PTFE	6	20
ACTUB-PEBD06-08	6 mm	8 mm	25 ml	max. 75°C	PEBD	10	32
ACTUB-PEBD10-12	10 mm	12 mm	100 ml	max. 75°C	PEBD	6	19
ACTUB-PEBD10-12-BLEU	10 mm	12 mm	100 ml	max. 75°C	PEBD	6	19
ACTUB-PEBD14-16	14 mm	16 mm	100 ml	max. 75°C	PEBD	9	29

Reinforced PVC Pipes

REFERENCE	⌀ int.	⌀ ext.			MATERIAL	Service pressure(bar) at 23°C	Rupture pressure (bar) at 23°C
ACTUB-PVCHD 12-19	12 mm	19 mm	30 ml	max. 80°C	PVC	15	-
ACTUB-PVCHD 15-23	15 mm	23 mm	30 ml	max. 80°C	PVC		-
ACTUB-PVCHD 19-27	19 mm	27 mm	30 ml	max. 80°C	PVC		-

SILINOX Tubes

FOR AUTOCLAVE

PTFE pipe + Steel braid + Spring

14 bar int.& ext.

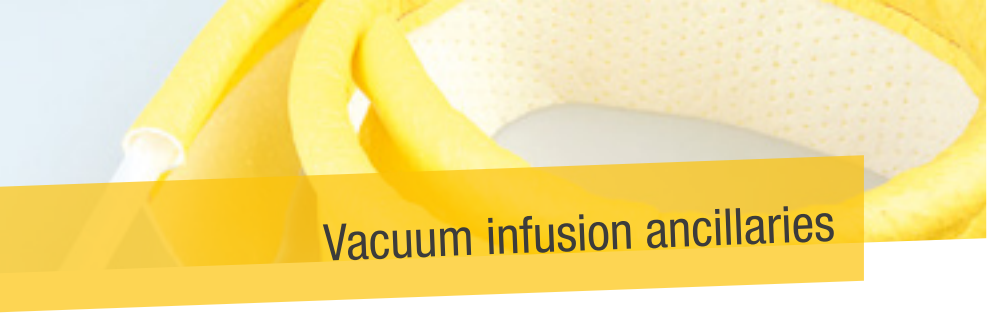
1/4"M-1/4"M COONECTOR	3/8"M-3/8"M COONECTOR	3/8"F-3/8"F COONECTOR	1/4"M 90°-3/8"F COONECTOR		
ACTUB-SILINOX10A0050				0.5 m	
ACTUB-SILINOX10A0100	ACTUB-SILINOX10B0100	ACTUB-SILINOX10E0100	ACTUB-SILINOX10DE100	1 m	
ACTUB-SILINOX10A0200	ACTUB-SILINOX10B0200	ACTUB-SILINOX10E0200	ACTUB-SILINOX10DE200	2 m	
ACTUB-SILINOX10A0300	ACTUB-SILINOX10B0300	ACTUB-SILINOX10E0300	ACTUB-SILINOX10DE300	3 m	
ACTUB-SILINOX10A0400	ACTUB-SILINOX10B0400	ACTUB-SILINOX10E0400	ACTUB-SILINOX10DE400	4 m	
			ACTUB-SILINOX10DE500	5 m	220°C
ACTUB-SILINOX10A0600	ACTUB-SILINOX10B0600	ACTUB-SILINOX10E0600		6 m	
ACTUB-SILINOX10A0800	ACTUB-SILINOX10B0800	ACTUB-SILINOX10E0800		8 m	
ACTUB-SILINOX10A1000	ACTUB-SILINOX10B1000	ACTUB-SILINOX10E1000		10 m	
ACTUB-SILINOX10A1200	ACTUB-SILINOX10B1200	ACTUB-SILINOX10E1200		12 m	

⌀ int.10 mm
⌀ ext.20 mm

Other crimpings upon request

VACUUM INFUSION ANCILLARIES

Flat resin
Vacuum channels
Plugs
«Eco» plugs
Connectors
INFUTAC Adhesive spray
MEGATAC Adhesive spray
FOGTAC Glue for Infusion & RTM



Vacuum infusion ancillaries

DIATEX offers a range of fittings, valves, adapters and consumable hoses for vacuum infusion.
This range of fittings and valves is available in several diameters to cover all needs.

FLAT RESIN & VACUUM CHANNELS

Infusion plug
p.94

DIADRAIN

Flat resin

DIADRAIN is a flat resin or vacuum channel. It consists of a three-dimensional polyester filament core structure wrapped in a non woven polyester sleeve.

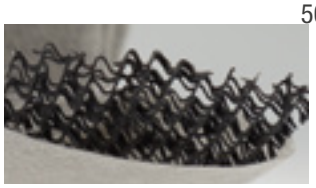
Works as resin supply channel or vacuum channel in vacuum infusion process.

\+ Flexible.
Easy to cut to size.

	50 I 100 mm	100 m	Max. 80 °C

BLACK / GREY

FDIADRAIN050
FDIADRAIN00



DIADRAIN PA80

Flat resin with peel ply

DIADRAIN / PA80 is a resin or flat vacuum channel to avoid marking parts manufactured by vacuum infusion: contrary to the pipes, it does not mark. It is made of a three-dimensional polyester filament core, wrapped in a non-woven polyester sheath, itself wrapped in a PA80 tear-off fabric sheath to facilitate removal.

Works as resin supply channel or vacuum channel in vacuum infusion process.

\+ Flexible.
Easy to cut to size.

	50 mm	Roll x 50 ml	Max. 80 °C

BLACK / GREY

FDIADRAIN50/PA80

DIADRAIN MP

MICROPOROUS flat vacuum channel

ACPRISE-INFUSION

DIADRAIN MP is placed around the mold instead of the spiral pipe : when the resin reaches DIADRAIN MP, it is stopped meanwhile the gas is still eliminated from the laminate. DIADRAIN MP can also be set at any place on the laminate.

Very fast implementation of vacuum channels.

+ Flexible.
Easy to cut to size

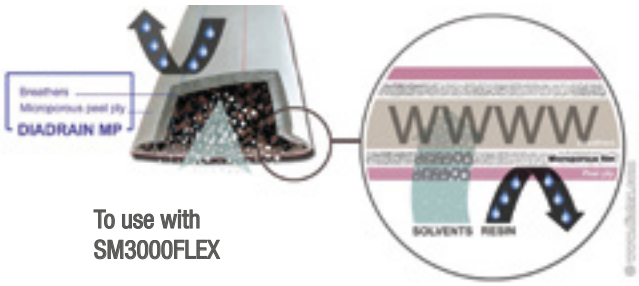
50 mm	50 m	Max. 80 °C

BLACK /GREY/WHITE

FDIADRAIN050MP

TO USE WITH

LSM3000FLEX Sealant tape



To use with SM3000FLEX

SPIRALNET

Resin infusion line

When using a spiral tube as a resin line in vacuum infusion process, one of the biggest issues is the marking of the laminate. In order to get rid of this problem, DIATEX developed a ready to use advanced solution : **SPIRALNET**.
This product combines a tube mesh together with a spiral tube in order to optimize the resin distribution and avoid the marking of the laminate during the infusion process.

Includes spiral tube & mesh.

+ Easy to use.
No marking of the laminate.
Standard supply : rolls of 50 m.
Can be used with all nets.

65 mm (sewn net)	100 m	Max. 90 °C	12 - 14 mm 14 – 17 mm

GREEN YELLOW

SPIRALNET-0M70-12/14
SPIRALNET-0M70-14/17
SPIRALNET-F10-12/14

SPIRAL TUBING

Translucent spiral tubing

ACIGSPIR

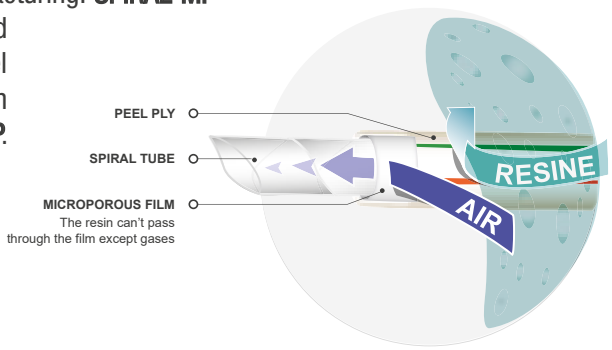
Spiral plug
p.94

REFERENCE	⌀ int.	⌀ ext.			MATERIAL
ACIGSPIR04-06PTFE	4 mm	6 mm	10 ml	260 °C	PTFE
ACIGSPIR09-12PE	9 mm	12 mm	25 ml	90 °C	PEHD
ACIGSPIR12-14PE	12 mm	14 mm	100 ml	90 °C	PEHD
ACIGSPIR14-17PE	14 mm	17 mm	25 ml	90 °C	PEHD
ACIGSPIR19-22PE	19 mm	22 mm	25 ml	90 °C	PEHD

SPIRAL MP

Vacuum channel

SPIRAL MP is a microporous vacuum channel used for vacuum infusion parts manufacturing. **SPIRAL MP** is made of a spiral tube wrapped in the PES90MP microporous peel ply. To reduce marking, you can use the microporous **DIADRAIN MP**.



WHITE

SPIRALMP-12/14

SPIRAL MP FAST

The Fast version offers discontinuous sealing which provides accelerated vacuuming. The resin brake remains efficient by limiting the resin flow to a drip.

WHITE

SPIRALMP-FAST-12/14

Very fast implementation of vacuum channels.

\+

Very flexible.
Easy to cut to size.

	∅ 12 - 14 mm	50 m	Max. 90 °C

SPIRALPLEX

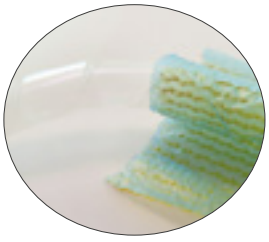
Resin Infusion Line

SPIRALPLEX is a remote resin infusion line. When using a spiral tube as a resin channel, one of the biggest issues is the marking of the laminate after infusion. To eliminate this problem, DIATEX has developed a ready-to-use solution: the SPIRALNET. **SPIRALPLEX** is a release agent for direct application to composites.

GREEN / YELLOW

SPIRALPLEX-FLO-14/17

SPIRALOLF



The SPIRALPLEX is also available in the OLF version with the drainage net inside. This version is preferable for quick installation when the marking of the part is not significant. The release film facilitates removal after infusion.

WHITE

SPIRALPLEX-OLF-14/17

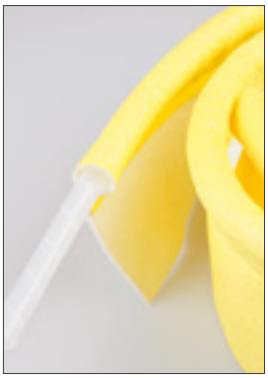
Combines a spiral tube with an INFUPLEX to optimise resin distribution and avoid marking the laminate during the infusion process.

\+

No marking on the laminate.
Easy to use.

	∅ 14 - 17 mm	100 m	Max. 90 °C

DIABREAKER *Resin brake line*



DIABREAKER is made of a non-woven polyester filled with thermoplastic microspheres, laminated with a release film, and holding a spiral tube, which delivers the vacuum all along the product.

Thanks to ELA20 release film, the product is easily peeled from the part, during demolding operation.

+

Avoids overconsumption of resin, by slowing down the resin as soon as the front gets into contact with it.

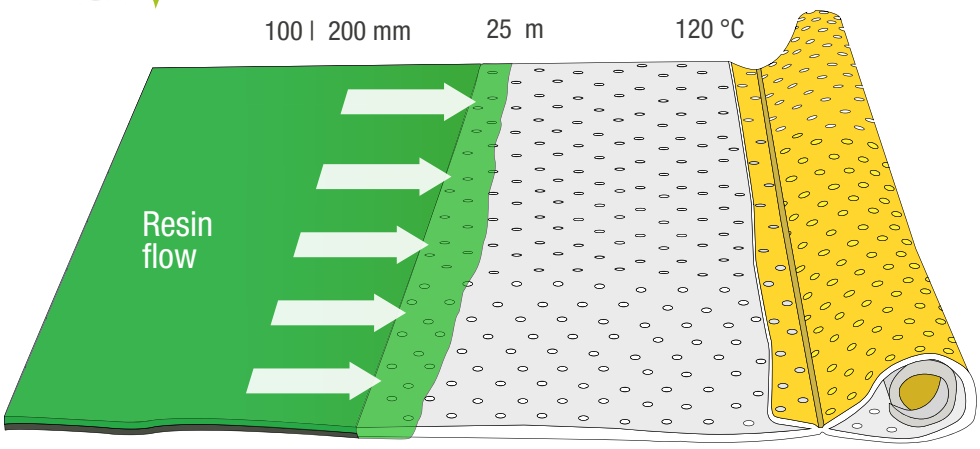
WHITE / YELLOW

FDIABREAKER1F100

100 | 200 mm

25 m

Max. 120 °C



PLUGS & CONNECTORS

Perfect for 10-18 silicone pipe

CAUTION Do not handle before launching the process

REF.	INFUSION CLAMP	Threaded fitting valves*				T Connectors				T Small connectors		
	ACICLAMP	ACIV10PP	ACIV16PP	ACIV18PP	ACIV20PP	ACIT10PP	ACIT10PA	ACIT16PP	ACIT20PP	ACI-TR16-10PP	ACI-TR20-16PP	ACI-TR20-10PP
Ø	⩾ 20mm	10 mm	16 mm	18 mm	20 mm	10 mm	10 mm	16 mm	20 mm	16-10 mm	20-16 mm	20-10 mm
	Unit	25 units X bag				50 units X bag			25 units X bag	50 units X bag		
	-	90°C max.				90°C max.	200°C max.	90°C max.	90°C max.	90°C max.		

* Other diameters & threaded fittings available > **CONTACT US**

REF.	L Connectors			I Connectors			I Reduced connectors	
	ACIL10PP	ACIL16PP	ACIL20PP	ACII10PP	ACII16PP	ACII20PP	ACIIR16-10PP	ACIIR20-16PP
Ø	10 mm	16 mm	20 mm	10 mm	16 mm	20 mm	16-10 mm	20-16 mm
	100 units X bag	50 units X bag		100 units X bag		50 units X bag	100 units X bag	50 units X bag
	90°C max.			90°C max.			90°C max.	

Table of pipe ID (in mm) :

ACI Ø10 → d10 pipe

ACI Ø16 → d15 pipe

ACI Ø20 → d19 pipe

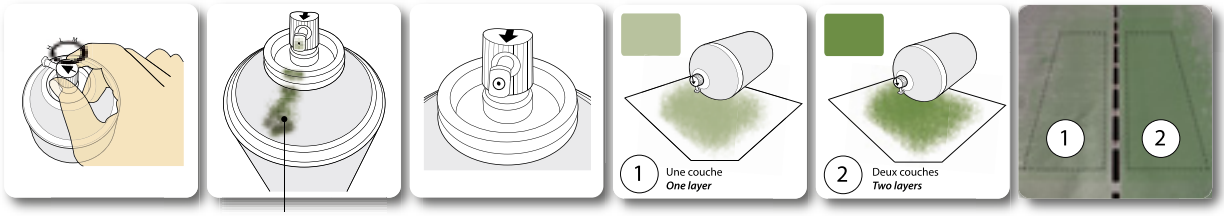
ACI Ø25 → d23 pipe

INFUTAC ADHESIVE SPRAY

INFUTAC is made for the assembly of dry reinforcements and vacuum devices in vacuum infusion and RTM processes.

- Holding of hybrid materials
- Optimal adhesion during the molding
- Low drying shrinkage
- Exact application thanks to ultrafine spraying and green tracer
- High instantaneous adhesion

INFUTAC adhesive, made for vacuum infusion process, ensures a perfect tack of the reinforcements during the molding. The glue does not interfere on the surface quality and structural integrity.



Flow control thanks to a regulation button L(low), M(medium), H(high).

Green tracer

Unblocked nozzle

All INFUTAC sprays are supplied with adjustable spray flow nozzle

INFUTAC Spray

INFUTAC Canister

AVAILABLE QUANTITIES

INFUTAC CLEAR (transparent) is available in 500 ml sprays.
INFUTAC GREEN (green color) is available in 500 ml sprays and 22 L canisters.

	INFUTAC CLEAR	INFUTAC GREEN	INFUTAC GREEN
Reference	**WINFUTAC / CLEAR / AERO5**	**WINFUTAC / GREEN / AERO5**	**WINFUTAC / C22**
Volume	SPRAY 500 ml	SPRAY 500 ml	CANISTER 22 L
Nb/ box	12	12	12
Nb/ palet	1512	1512	36

ANCILLARIES

PIPES	GUN	VALVE
3.66 l 5.5 m	Sold with 9501 nozzle	Suitable with pipes
REUSABLE	REUSABLE	REUSABLE

Gun for INFUTAC spray

Compatible with 500ml INFUTAC, FOGTAC and MEGATAC.

WINFUTACGUN/AERO

Ancilliaries for canister

Winfutachos

REF.	
WINFUTACGUN	Gun sold with 9501 nozzle

REF.	
WINFUTACHOS3	3.66M PIPE
WINFUTACHOS4	4M PIPE
WINFUTACHOS5	5.5M PIPE
WINFUTACHOS8	8M PIPE

MEGATAC POWERFUL GLUE FOR INFUSION PROCESS

MEGATAC adhesive is made for the assembly of dry reinforcements and vacuum devices in vacuum infusion and RTM processes. The glue has a powerful bonding force.
The high adhesive strength of MEGATAC glue allows the application of numerous fabrics and cores (foam, balsa wood…).

AVDANTAGES

- Available in spray : WEB type spraying, low volatility.
- Powerful bonding force.

REF.	Characteristics
WMEGATAC / CLEAR / AERO 5	500 mL Spray
WMEGATAC / 22	22 L Canister

FOGTAC GLUE FOR INFUSION & RTM

FOGTAC glue, intended for the vacuum infusion and RTM injection process, ensures perfect adhesion of the various reinforcements during draping.
It has a powerful bonding force which limits consumption.

With its misting effect, the evaporation of solvents is facilitated and makes it possible to quickly obtain a tack on the surface of the reinforcements, while limiting the quantity deposited between the different layers.
FOGTAC glue does not interfere with resin flow and does not cause marking problems.

Color : green.

WFOGTAC / GREEN /AERO5

Volume	SPRAY 500 ml
Nb/ box	12
Nb/ palet	1512

PLUGS

Infusion & Spiral plugs Eco

SPIRAL and INFUSION plugs have been redesigned in an Eco-responsible and Economical way :

• **Spiral plug Eco** : 80% less plastic used compared to a traditional connector; addition of fillers of vegetable origin (reed; vine shoots

• **Infusion plug Eco** : Weight gain divided by 3.6 including wood load (reeds and vine shoots)

Unit bags x 100.

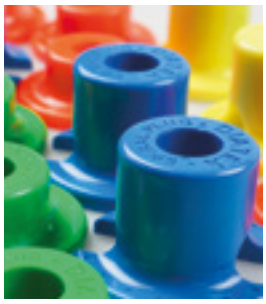
SPIRAL PLUG ECO

INFUSION PLUG ECO

TO USE WITH SPIRAL			TO USE WITH DIADRAIN		
ACIGSPI9-12/PLUG8E Material : Vine branch Colour : Dark brown To use with 8mm diameter tubes	ACIGSPI12-14/PLUG12E Material : Vine branch Colour : Wooden brown To use with 12mm diameter tubes	ACIGSPI14-17/PLUG16E Material : Reed Colour : Light brown To use with 16mm diameter tubes	ACINFUSION43/PLUG8E Colour : Dark brown To use with 8mm diameter tubes	ACINFUSION47/PLUG12E Material : Vine branch Colour : Wooden brown To use with 12mm diameter tubes	ACINFUSION51/PLUG16E Material : Reed Colour : Light brown To use with 16mm diameter tubes

ACIGSPI12-14/PLUG12JA
Material: Plastic / Colour: Yellow
For use with diameter
12 mm and 9/12 or 12/14 sheaths

Infusion & Spiral plugs



To reduce leak risks and manufacturing costs, DIATEX developed a new range of connectors: SPIRAL PLUG and INFUSION PLUG.
50 unit bags.

	Diameter	To use with
ACIGSPIR12-14/PLUG12	12 mm	SPIRAL
ACIGSPIR14-17/PLUG16	16 mm	SPIRAL
ACINFUSION50/PLUG12	12 mm	DIADRAIN
ACINFUSION54/PLUG16	16 mm	DIADRAIN

Spiral Plug - Blue
ACIGSPIR14-17/PLUG16

Spiral Plug - Yellow
ACIGSPIR12-14/PLUG12

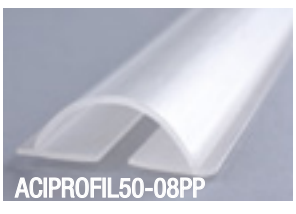
Infusion Plug - Green
ACINFUSION54/PLUG16

Infusion Plug - Orange
ACINFUSION50/PLUG12

Infusion Box

Resin infusion connector for low temperature resin infusion application.
ACIBOX sits on top of the flow resin feed line ACIP50.
Use the threaded 3/4 connectors to set the pipe (ACILF25-3/4PP or ACILF20-3/4PP).

Omega profile



PP profile used as resin flow line or vacuum line during a Vacuum Infusion process.
Use our INFUSION BOX as resin infusion connector.

VACUUM MOULDING ANCILLARIES

Vacuum plugs
Vacuum regulation
Vacuometers
Quick plugs
Other plugs & adapters
Pre-assembled manifolds
NEW Vacuum & temperature sensor

Vacuum moulding ancillaries

VACUUM PLUGS

1. 2. 3. 4.

1. QUICK SELF-CUTTING VACUUM PLUG 1/4" MALE
Silicone seal
Blue anodized nut

ACPRISE-VIDEAUTO1/4M

2. ACPRISE-VIDEAUTO50

NEW **3. ACPRISE-VIDEAUTO50AL**
Silicone seal
Red anodized nut

NEW **4. ACPRISE-VIDELATE1/4M**
Side vacuum plug

VACUUM REGULATION

5. 6.

5. 1/4" MALE VACUUM REGULATOR

ACREGUL-MAN-1/4-VACU

6. 1/8" MALE VACUUM REGULATOR

ACREGUL-MAN-3/8

EXAMPLES

VACUOMETERS

7. 8. 9. 10.

7. VACUOMETER + Suction cup

ACVACU63-1/4MCUP

8. VACUOMETER
1/4" Male vacuometer
Ø 63 mm

ACVACU63-1/4M

9. VACUOMETER
1/2" Male vacuometer
Ø 100 mm

ACVACU100INOX-1/2M

10. DIGITAL VACUOMETER

ACVACU76ELEC-1/2M

QUICK PLUGS

QUICK MALE PLUG
1/4 G | with shut-off valve

ACAUTO-M-1/4M

QUICK FEMALE PLUG
1/4 G | with shut-off valve

ACAUTO-M-1/4F

QUICK MALE PLUG
1/2 G | with shut-off valve

ACAUTO-M-1/2M

240°C

ACAUTO-LAITON-M-1/4F

ACAUTO-LAITON-F-1/4F

QUICK FEMALE PLUG
3/8 F | with shut-off valve

ACAUTO-F-3/8F

QUICK PLUG FOR TUBE
10 mm

ACAUTO-F-TUB10M

210°C

QUICK MALE PLUG
1/4 G | with shut-off valve

ACAUTOECO-M-1/4F

QUICK FEMALE PLUG
1/4 | with shut-off valve
Viton seal + PTFE

210°C **ACAUTOECO-F-1/4F**

ACAUTO-INOX-M-1/4F

ACAUTO-INOX-F-1/4F

230°C

AUTOCLAVE | **STANDARD**

VACUUM & TEMPERATURE SENSOR

NEW

ACVACU/VACPUC

Diatex is the exclusive VACPUC distributor for Europe and North Africa.

Wireless and battery-free vacuum and temperature sensor

A wireless and battery-free pressure and temperature sensor for the composites manufacturing industry.

The easiest solution to measure the pressure in your infusion mould or vacuum mould.

It has a single sensor to check the tightness of your vacuum bag before/during the process and control the exothermic peak at the end of the process.

- You can measure pressure and temperature without piercing your vacuum bag film
- The pressure range is 0 to 1200 mbar absolute
- Maximum operating temperature up to 120°C / 250°F
- It can record the history of readings
- A free app is available for Android and iPhone users

LEARN MORE

NEW

LEARN MORE

Micro-Porous pouch

The use of Micro-Porous Pouches provides optimum protection for Vacpucs while guaranteeing perfect readability.
Air permeable but not resin permeable.

ACVACU/VACPUC-POUCH

OTHER PLUGS & ADAPTERS

Unit

Y Plugs

	REF.
1/4"F DOUBLE Y PLUG	ACRAC-Y1/4F
3/8"F DOUBLE Y PLUG	ACRAC-Y3/8F

X Plugs

	REF.
1/4"F TRIPLE X PLUG	ACRAC-X1/4F
3/8"F TRIPLE X PLUG	ACRAC-X3/8F

T Plugs

	REF.
1/4"F DOUBLE T PLUG	ACRAC-T1/4F
3/8"F DOUBLE T PLUG	ACRAC-T3/8F

Plugs for Tubes

	REF.
1/4"M PLUG	ACMANCHON1/4TUB08
1/4"M PLUG	ACMANCHON1/4TUB10
3/8"M PLUG	ACMANCHON3/8TUB10

Adapters

	REF.
1/2"F - 3/4"M ADAPTER	ACADAPT1/2F3/4M
1/4"F - 3/8"M ADAPTER	ACADAPT1/4F3/8M
1/4"M - 3/8"M ADAPTER	ACADAPT1/4M3/8M
1/4"F - 3/8"F ADAPTER	ACADAPT1/4F3/8F
1/4"M - 3/8"F ADAPTER	ACADAPT1/4M3/8F

Caps

	REF.
1/4" MALE CAP 6 Hexagon socket screw	ACBOUCH6PC1/4M
1/4" MALE CAP	ACBOUCH6P1/4M

Sleeve

	REF.
1/4" FEMALE SLEEVE	ACMANCH1/4F1/4F

Hose end coupling

3/4" female **threaded fitting**

ACRAC-GEKA-3/4F

Female hose end coupling QAC94

3/4" male **threaded fitting**

ACRAC-GEKA-3/4M

Female hose end coupling QAC95

3/8" male **threaded fitting**

ACRAC-GEKA-3/8M

20 mm **Grooved coupling**

ACRAC-GEKA-MANCH

Grooved hose end coupling for 20 mm ID hose.

10 mm **Grooved coupling**

ACRAC-GEKA-MANCH10

Grooved hose end coupling for 10 mm hose.

PRE-ASSEMBLED MANIFOLDS

WITH VALVES

ACMANI-4V-1/2

1/2" 4 inlets

ACMANI-4V-1/4

1/4" 4 inlets

ACMANI-5V-1/2

1/2" 5 inlets

ACMANI-5V-1/4

1/4" 5 inlets

ROOM TEMPERATURE

WITHOUT VALVES

ACMANI-4S-1/4

ACMANI-5S-1/4

Max. T°
180°C

PRESSURE INTENSIFYING SEAL

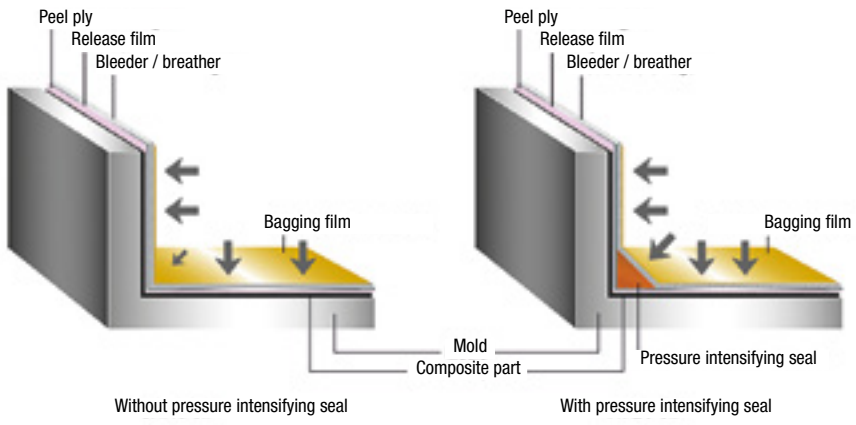
CO-RD4323-1315

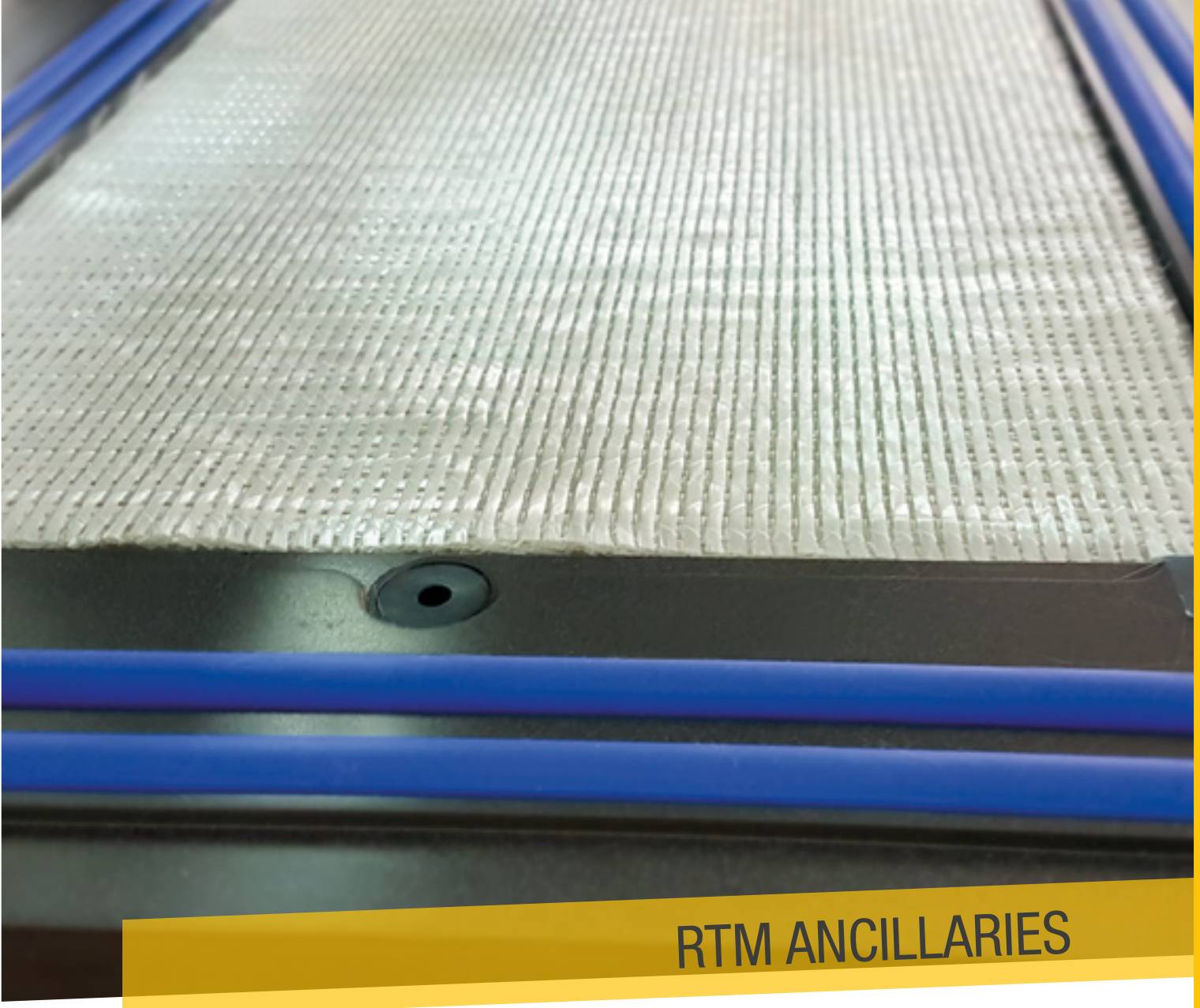
Intensifying triangular silicone seal for right-angled corner

In order to improve the pressure in small angles, we provide a triangular seal with a high shore hardness, to be placed when vacuuming between the release film and the bleeder / breather.

Advantages:

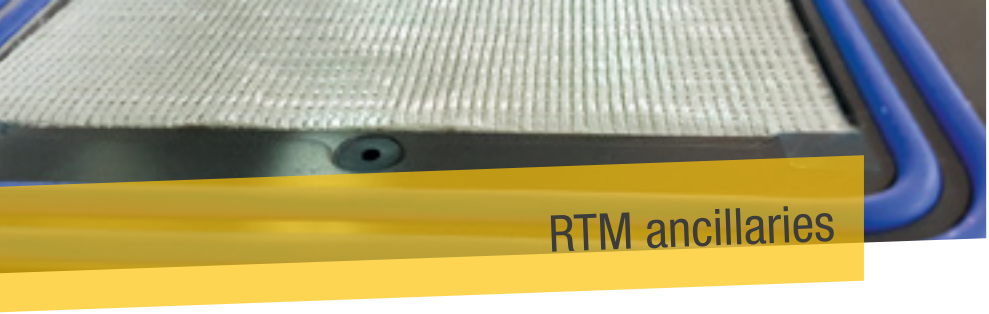
- Intermediate debulking applications and curings
- Oven and Autoclave compatible
- Reusable
- Easy and quick implementation





RTM ANCILLARIES

Inserts
Plugs
Calibration
Closing systems for RTM moulds
Catchpot
Ancillaries for RTM moulds
Mould seals
IMPS systems



INSERTS

FOR LAMINATING

FOR VACUUM CLOSING

CO-MM-0002 | **3/8" Machined steel insert**

✓ Compatible with MM-0003 in order to accept 6mm pipe

CO-XM-0403 | **3/8" Insert**

✓ Suitable with XM-0405 & XM-0406

Perfect for VACUUM CLOSING

CO-XM-0304

With GEKA quick.

FOR INJECTION & VACUUM

CO-XM-0404

For 10 mm ED PTFE pipe

FOR VACUUM CATCHPOT

CO-MM-0014 | **Female stainless steel Insert**

For
✓ MM-0305 injector
✓ Resin catchpot
✓ V400 valve
∅ 20mm
Can be plugged with ref. MM-005

FOR V400 INJECTION VALVE

CO-MM-1501 | **Threaded insert**

For :
✓ 20mm (MM-0005) insert blank
✓ 6/10mm pipes
(XM-0305 / XM-0311 / XM-0312)
✓ INCLUDES 1 x O ring

FOR AIR EJECTOR

CO-MM-2001 | **Machined steel insert**

To suit XE-0020 air ejector.

FOR IMPS PRESSURE SENSOR

CO-MM-0030 | **3/4" Metal insert**

Allows the sensor to be easily mounted and de-mounted.

FOR SCREWING

CO-MM-0017 | **Mould insert to accept vacuum catchpot**

For machine metal moulds.

CO-MM-1519 | **Threaded insert**

To be threaded into metal moulds for V400 injection valve.
✓ INCLUDES 1 x O ring

CO-XA-0034 | **IMPS Insert**

To be threaded into pressure sensor.
✓ INCLUDES 1 x O ring

PLUGS

DELRIN BLANKING PLUG

CO-MM-0005 | **3/8" threaded plug**

DELRIN 20 mm blanking plug.
No through hole.
Can be used either as blanking plug or threaded.
✓2 Rings INCLUDED (Ref. MS-02-1625)

INJECTION FITTINGS

XM-0311

CO-XM-0311

Use in conjonction with mould insert MM-0014 to connect a 6 mm ED injection or vent pipe to mould.

CO-XM-0312

Use to connect a 10 mm ED injection or vent pipe.

CO-XM-0305

✓XM-0405 connector included
✓To use with MM-0014 to connect a 10 mm ED injection or vent pipe.

THREAD CONNECTION

CO-MM-0003 | **3/8" male threaded connector**

✓To be threaded into MM-0002insert.
To reduce vent diameter. For use with 6 mm pipe.

QUICK PIPE CONNECTOR

XM-0406

CO-XM-0405	**3/8" claw fitting**	For PE 10mm ED pipe. Assembled on XM-0404 & XM-0305 connectors.
CO-XM-0406	**3/8" claw fitting**	For PE 12mm ED pipe
CO-XM-0407	**1/2" claw fitting**	

XM-0407

THROUGH-HULL FITTING

ACRAC-GEKA-PCOQUE | **3/4" threaded fitting**

Through-hull fitting QAC93 for vacuum device.

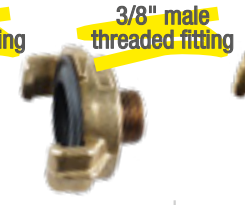
HOSE END COUPLING

ACRAC-GEKA-3/4F

Female hose end coupling QAC94

ACRAC-GEKA-3/4M

Female hose end coupling QAC95



ACRAC-GEKA-3/8M

ACRAC-GEKA-MANCH

Grooved hose end coupling for 20 mm ID hose.

ACRAC-GEKA-MANCH10

Grooved hose end coupling for 10 mm hose.

CALIBRATION

Calibrated wax

For the modeling of the UPPER MOULD

(0.18m²)

610 x 305 mm

REFERENCE		
CO-CC004-005	0.5 mm	Box X 10 sheets
CO-CC004-010	1 mm	Box X 8 sheets
CO-CC004-015	1.5 mm	Box X 8 sheets
CO-CC004-020	2 mm	Box X 8 sheets
CO-CC004-025	2.5 mm	Box X 6 sheets
CO-CC004-030	3 mm	Box X 4 sheets
CO-CC004-040	4 mm	Box X 4 sheets
CO-CC004-050	5 mm	Box X 3 sheets

Calibrated cork

VERY ECONOMICAL for flat shapes

1 m

Sold by LM

REFERENCE	
CO-LC067-010	1.0 mm
CO-LC067-020	2.0 mm
CO-LC067-030	3.0 mm

Filled wax

Compatible with DIASIL 20

REFERENCE	
CO-YELLOWWAX650	Pack X 650 g

CLOSING SYSTEMS FOR RTM MOULDS

Closing brackets

WITH a receiving screed

CO-SA-0331

NO receiving screed

CO-SA-0351

Closing bracket for Light RTM mould.

XM-0301

Ultra resistant closing system.
Very quick to implement.

Mould clamp set

XM-0300

Heavy-duty steel clamping system, for RTM moulds.
The shim of the cone allows 'Z' stop adjustment.
Designed to be welded directly to mould frame structure.
✓Shimmed male cone & M24 bolt INCLUDED

CATCHPOTS

CO-XE-0211

Capacity : 2L
Compatible with CO-MM-0014 connector

ANCILLARIES FOR RTM MOULDS

Mould location cone

CO-MM-0020

Machined cone to be bolted to flange between inner and outer seals. The cone gives positive X-Y-Z location between the upper and lower mould surfaces. ✓ M8x50 bolts and nuts INCLUDED

Injection valve V400

V400 Valve		V400 System
	For RTM & RTM Light	 Included : ✓1 injection valve - XE-0015S ✓1 resin injection hose + resin quick coupler connector - XE-001605 ✓1 control valve - XE-0017
CO-XE-0015		CO-XE-0018
CO-XE-0015SS	Stainless steel	CO-XE-0018SS
CO-XE-0015HT	180°C	

Designed to be fitted into threaded mould insert MM-1501 or used with 20mm mould insert MM-0014
✓10mm Nylon waste pipe & connector INCLUDED
✗ MM-1501 & MM-014 inserts MUST BE ORDERED SEPARATELY

Control system

CO-XE-0017

Control valve to open /close the injection valve XE-0015 from signal input from CIJECT injection machine.
✓Supplied with necessary fittings and pipes+ male quick connector for open signal.

Resin pipes (for quick pluging)

CO-XE-001605	Resin injection hose and fittings + resin quick coupler connector	50 cm
CO-XE-001610		100 cm
CO-XE-001615		150 cm

Infusion connectors

CO-XA-0317

To use with PE 10-12 pipe.

CO-XA-0313

To use with PE 14-16 pipe.

Air ejectors

Mould air ejector valve

CO-XE-0020

Valve designed for the safe removal of the moulded component from the mould. For inclusion into the laminated mould, allowing easy removal
✓ INCLUDED MM-2001 insert

Control button for air ejector

CO-XE-0021

Pneumatic button to control openings and closings of the air ejector valve. It can be mounted on the mould framework.
✓ Supplied with 2m of 6mm nylon pipe

Air ejector insert blanking plug

CO-MM-2007

Machined DELRIN insert to block MM-2001 air ejector if not fitting the XE-0020 air ejector.

Insert for air ejector

CO-MM-2001 Machined steel insert

To suit XE-0020 air ejector.
✓ INCLUDED FITTING + AIR EJECTOR

IMPS : In Mould Pressure Sensor system

Readout units

1 SENSOR INPUT

CO-XE-0051

✓ Included 220V AC supply

4 SENSOR INPUTS

CO-XE-0053

✓ 4 sensor inputs
✓ 1 selector switch

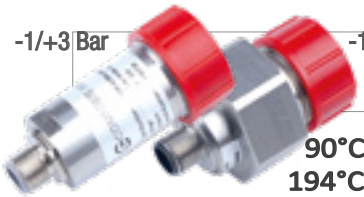
8 SENSOR INPUTS

CO-XE-0057

✓ 8 sensor inputs
✓ 1 selector switch

LED readout unit to display pressure reading (in bar). Upper display shows current pressure. Lower display is used in conjunction with optional control valve (XE-0052) and set by the operator. If the set pressure is exceeded, the control valve is actuated.

Pressure sensors



90°C
194°C

Room Temperature

High temperatures

120°C
248°C

Robust ceramic sensor.
Can be lounted in any position or orientation. Resin can be cured directly against sensor face.
3/4" BSP connection.

REFERENCE (NO cable included)	PRESSURE	REFERENCE (1m cable INCLUDED)	REFERENCE (10m cable INCLUDED)
XE-0050-001	- 1 / + 19 Bar	-	-
XE-0050-002	- 1 / + 3 Bar	XE-0050-004	XE-0050-005
XE-005A0-003	-0 / + 4 Bar (Abs)	XE-0050-006	XE-0050-007

IMPS Insert

CO-MM-0030 | 3/4 METAL Insert

For mounting into composite tools enabling a pressure sensor to be easily mounted and de-mounted.

TO LAMINATE IN THE MOULD IN COMPOSITE

CO-XA-0036-12 | IMPS adapter

12mm for INFUSION
Specific fitting to control injection pressure during infusion.
Also available in 15mm (CO-XA-0036-15)

Blanking plug for IMPS insert

CO-MM-0033

To block the MM-0030 insert when not in use

Cables & connectors for IMPS sensor

CO-XE-0054	CO-XE-0055
25m	10m

Cables & connector for the attachment of pressure sensor to either a readout/control unit or a CIJECT.

Mould seals

25ML REEL PACKAGE

DYNAMIC SEALS

REGULAR

CO-RD421-001

REGULAR DYNAMIC SEAL -WHITE

To use as a resin seal in RTM & Light RTM processes.
The seal is collapsed under vacuum, using the CO-RD20-2056 installation kit.

MEDIUM

CO-RD20-0013

MEDIUM DYNAMIC SEAL - BLUE

Medium version of the regular section mould seal.
To use as a resin seal in RTM & Light RTM tooling.

HARD

CO-RD20-0011

HARD DYNAMIC SEAL - GREEN

Hard version of the hollow silicone seal.
For high pressure applications.

PRIMARY SILICONE SEAL

CO-RD20-3340

PRIMARY SEAL FOR HOLLOW DYNAMIC SEAL

For modeling the following dynamic groove seals : RD421-001, RD20-0011 & RD20-0013.
Reusable

SLEEVE

CO-RD20-2057

SLEEVE FOR DYNAMIC SEAL

Bag x 20 silicone sleeves for CO-RD421-001 hollow dynamic seal.
Enables a tight connection.
4 mm x 8 mm x 4 cm

LIP SEALS

SILICONE

CO-RD20-5895

To position outside the mould.

CO-RD20-3661

Flexible lip seal.
Same design as RD20-5895.

CO-RD20-0014

For vacuum applications when small bend radii are required.
L 12 x H 10 (mm)

PRIMARY SEAL

CO-RD20-3391

Silicone seal used for modeling the throat of the RD20-5895 lip seal.
Reusable

PRIMARY SILICONE FOAM

CO-RD20-0017

Foam silicone section to provide a correct groove during mould manufacture (silicone or neoprene), for fitting of RD20-5895 lip section mould seal. The rounded corners make the laminating easier. Non reusable

SILICONE SEALS

SILICONE

CO-RD-CORDE0540

Silicone ring diameter 5.
To be embedded in metal tools.

SILICONE

CO-RD-CORDE0645

Silicone ring diameter 6.
To be embedded in metal tools.

ALSO

Glue for silicone seals

CO-RD-COLLE-E43/310

RESIN RUNNER PROFILES

CO-RD20-0016

Silicone section. Provides correct resin runner details during the RTM mould manufacture. Can be formed around vertical and horizontal radii.

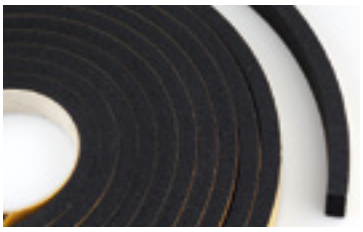
CO-RD20-4530

Silicone seal for a perfect shaping of the canal with resin.

ALSO

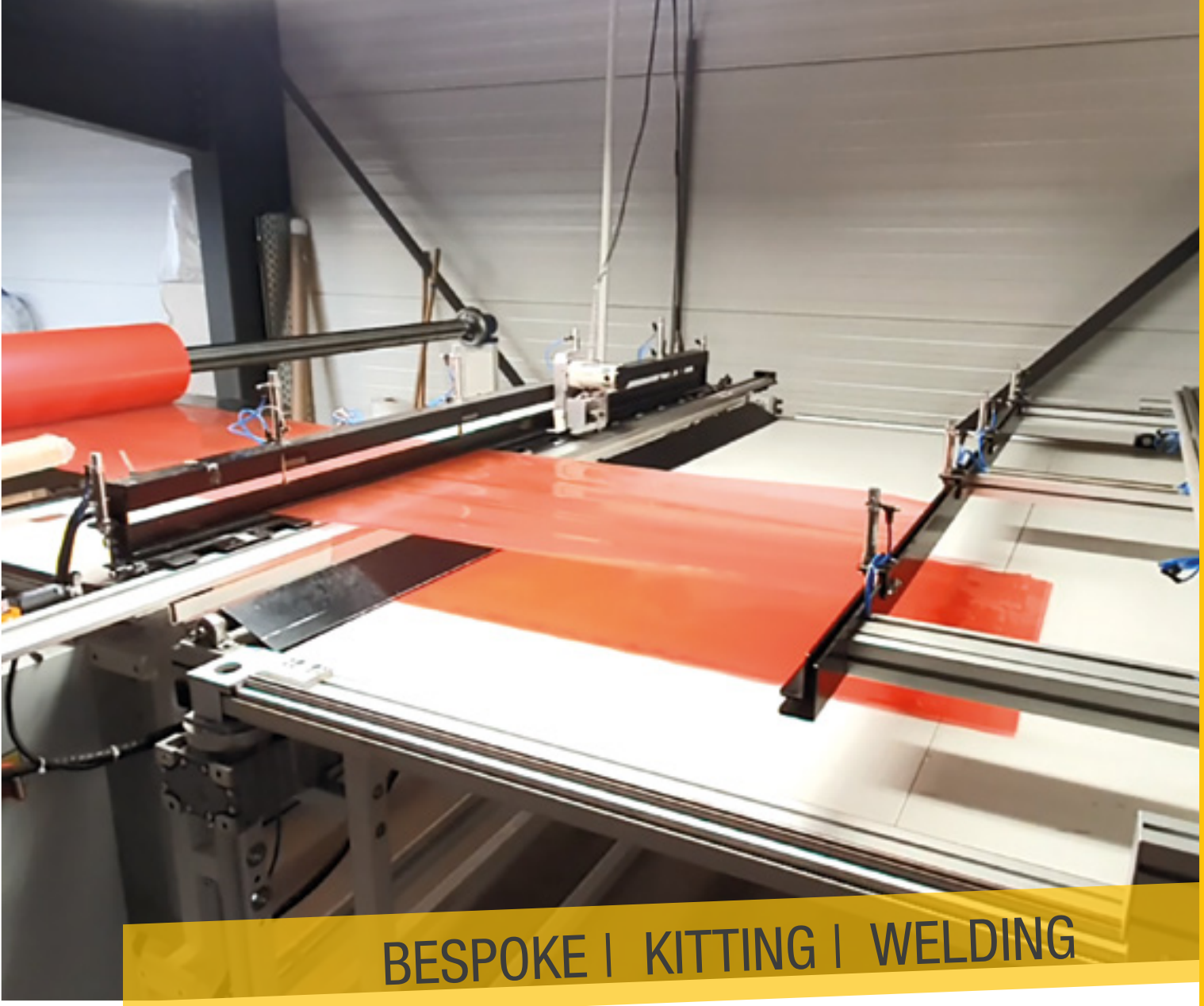
All mould carrier primer

CO-RD-PRIMER-G79/150	150 ml
CO-RD-PRIMER-G79/40	40 ml



ACZEPDM20X10AD	ACZEPDM20X5AD
Dimensions : h 10 mm x l 20 mm	Dimensions : h 5 mm x 1 20 mm

Cellular rubber strip firm cells (EPDM) single-sided adhesive.
Excellent sealing against water and other liquids. It has a high elastic restoring force OR Its elastic restoring force is high and is exceptionally resistant to extreme temperatures. Bag of 5 coils per 10 m.



BESPOKE | KITTING | WELDING

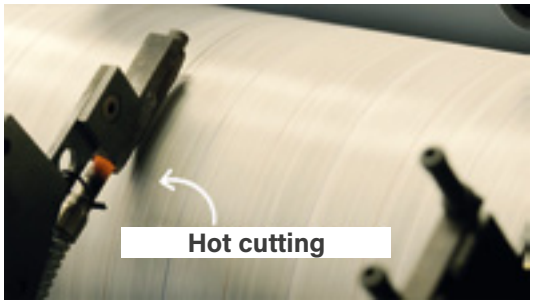
Kitting
Welding
Reusable sillicone

Bespoke | Kitting | Welding

Bespoke / Kitting / Welding

DIATEX has a custom kitting workshop.
We review all client's requests according to their specifications. In order to be time-efficient and more productive, we provide pre-made kits on our entire fabric range and vacuum consumables.
Contact us for more information.

Welding



Reusable silicone tooling

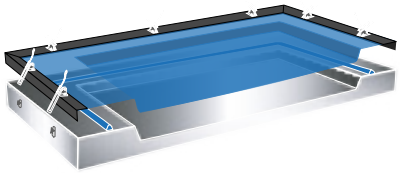
DIATEX provides a very wide range of reusable membranes for vacuum forming.
Our building workshop has a machining centre as well as a 2 m x 4 m autoclave.

Send us the 3D drawings of your tooling for a quick review (response within 48 hours). The high reactivity of our silicone workshop will ensure a short preparation time. DIATEX's expertise on silicone membranes manufacturing for Resin Infusion or Vacuum Molding will guarantee a maximum gain of your productivity!

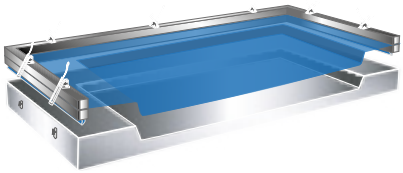
- Improved handling due to an optimized thickness
- Modeling, calibration, manufacturing of technical flanges
- Perfect seal 100% checked before shipping (Quality Control by vacuum drop test)

SEALING SYSTEMS SUITED TO YOUR PROJECTS

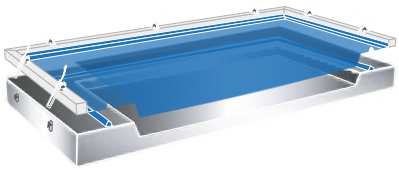
ADHESION TO CARBONE FRAME — Light & self-centring



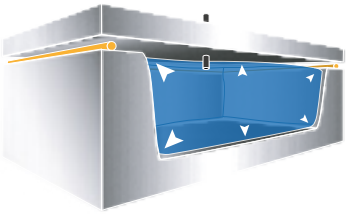
SCREWING BETWEEN 2METAL FRAMES — Easy to change membrane



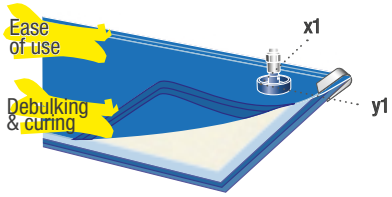
ADHESION TO METAL FRAME — Economical



INFLATABLE BLADDER — For hollow bodies



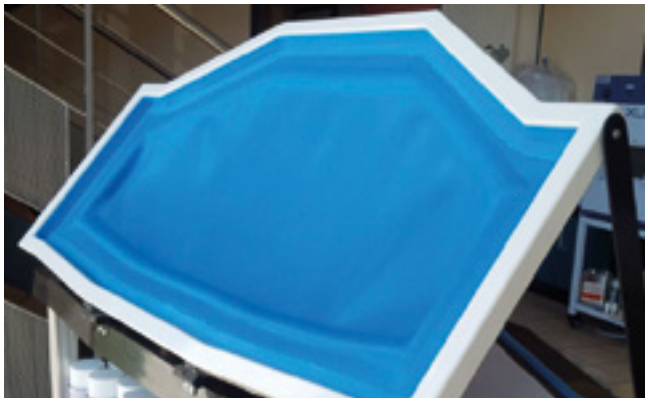
REUSABLE BAG DIASILBAG



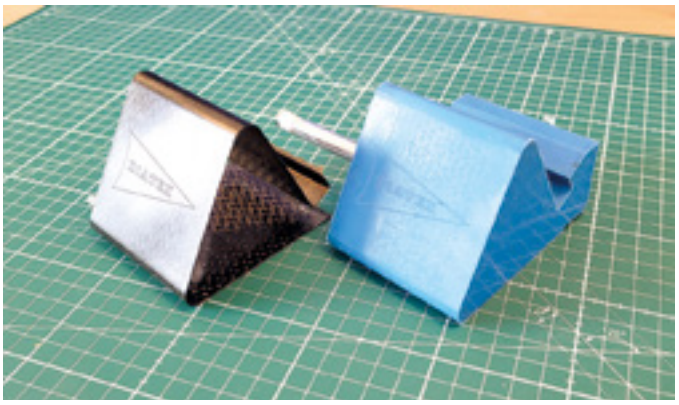
BOOST YOUR PRODUCTIVITY

✓ RÉDUCE HANDLING TIME ON COMPACTION & CURING TIMES

✓ IMMEDIATE SEAL



Examples



SILICONE BLADDER

RTV - DIASIL 49

VACUUM TABLE

EQUIPMENT MAINTENANCE I TRAINING

Equipment maintenance
Training on site
Customer support

Equipment maintenance | Training

Equipment maintenance

DIATEX ensures the installation and maintenance of your vacuum and RTM equipment.
Our team of technicians will come on site for any troubleshooting, updates, maintenance and conversions.

Customer support

Remote videoconferencing

Composite Training Center

At DIATEX's premises, we provide private professionnal training about RTM & Vacuum infusion.
These courses include a presentation of injection moulding processes and tooling realizations.
During hese sessions you will learn about mould design, construction and parts production.

Our training center has

- 2 RTM Tools 180°C/4 bars
- 1 Press 200°C / 200 bars
- 2 GTR Machines (Polyester, Epoxy)
- 2 Infusion Tools
- 4 Pre-Impregnated draping Tools
- 1 Oven
- 1 IR lamp
- 3 Silicone Machines

COMPOSITE PROCESS MATERIALS

DIATEX

49 rue Jules Guesde
69230 St-Genis-Laval - FRANCE
Tel.: +33 478 868 500
Fax.: +33 478 512 638

diatex.com

EN 9100
ISO 9001

IMPRIM'VERT®