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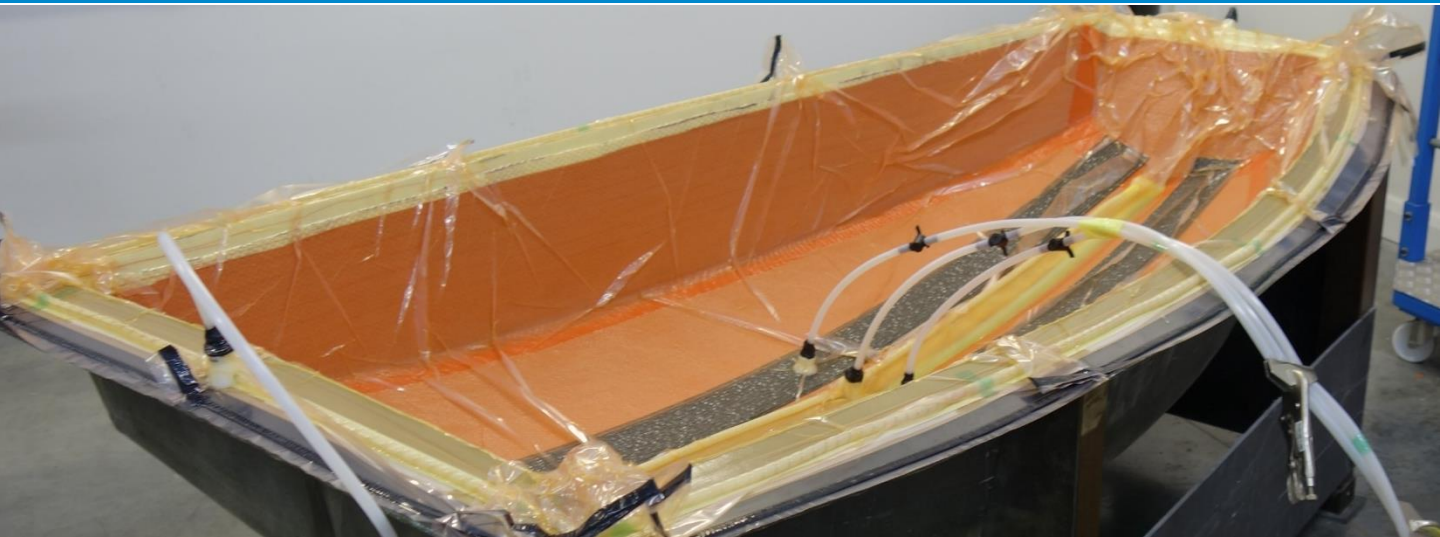


AIRTECH

ADVANCED
MATERIALS
GROUP




Vacuum Bagging Materials for Resin Infusion Autumn 2020



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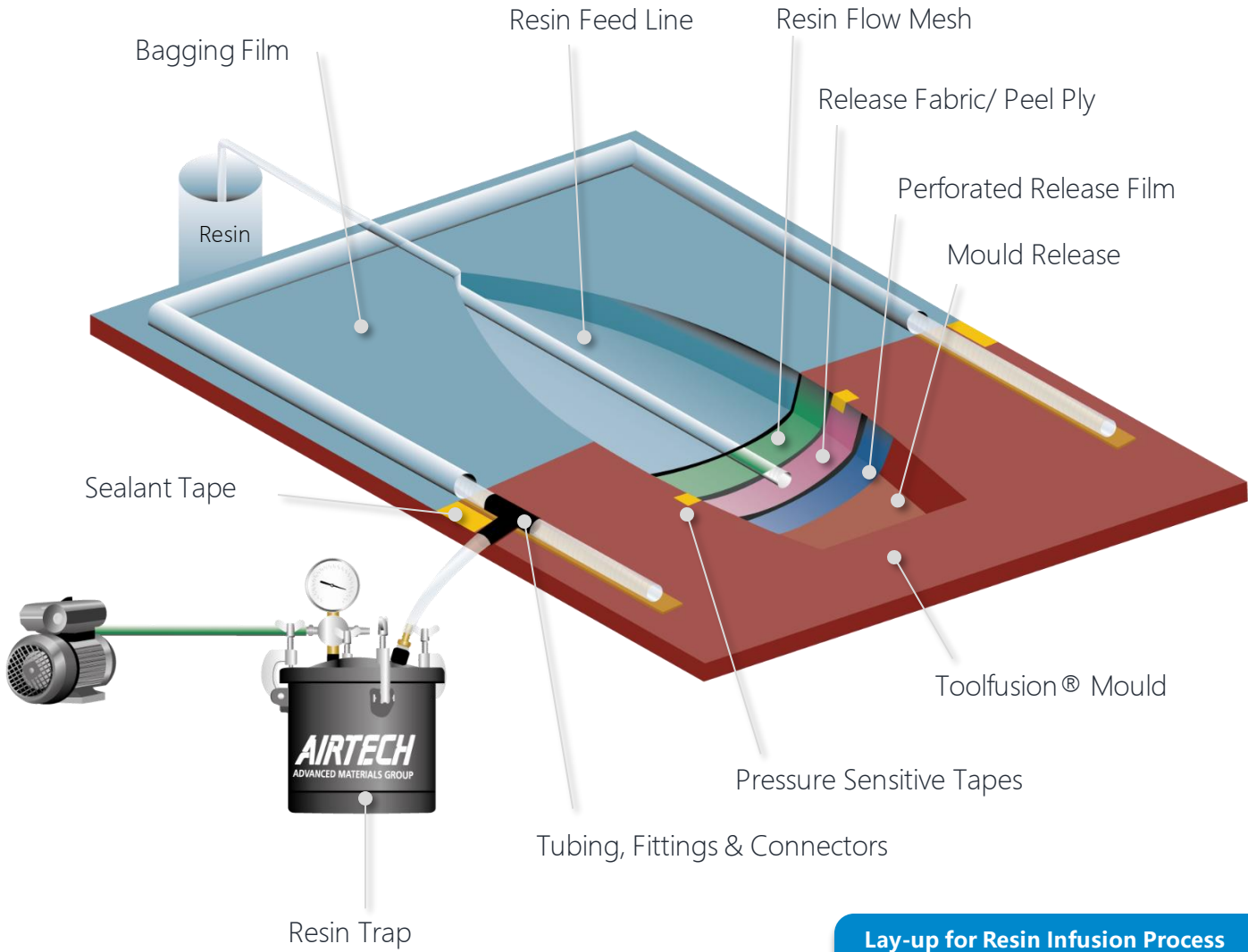
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www.airtech3D.com



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ADVANCED MATERIALS GROUP

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Welcome



Solar Race Boat Made with Airtech Infusion Materials

What's New for Infusion in Autumn 2020



Flowlease 160-37P16 Mesh/ Release Combo

Great labour savings can be achieved by having combination of products that can be applied in one operation. Flowlease 160-37P16 has high speed resin flow mesh and perforated release film developed specifically for infusion. Flowlease works well with polyester, vinyl ester and epoxy resins.



Flowstrip Resin Feeder

Flowstrip is a lay flat resin feed channel constructed with a high speed 3D mesh inside a highly porous non-woven polyester sleeve. Flowstrip is an extremely efficient resin flow channel which is easy to position on infusion laminates and vacuum bag.

Stik-Ply® N80P Peel ply with porous adhesive coating

Stik-Ply® N80P is a nylon peel ply with tracers and an acrylic adhesive coating. The peel ply can be applied easily to complex surfaces without spray adhesives. The adhesive coating is porous and allows resin to bleed through.



Dahlvac MB80 Vacuum channel for resin infusion

Dahlvac MB80 is an easy to use vacuum source designed for resin infusion. The product can easily be attached to the periphery of a mould using Airtac 2 LH spray adhesive or Airhold 10 CBS double backed tape.



Flowlease 75-37P16 Mesh/Film Combo

Combo-Tech Technology from Airttech combines materials for great labour savings during layup process. Flowlease combine perforated release films and resin flow mesh.



Flowlease 160-PP200 Mesh/Peel Ply Combo

Flowlease 160-PP200 combines flow mesh with peel ply fabric. Great labour savings can be achieved by having a combination of products applied in one operation as opposed to applying one layer at a time.

AS1 Low cost vacuum sealant tape

AS1 is an economical multi-purpose sealant tape with high tack. It removes easily from metal or composite tools. Suitable for cure applications up to 120°C.



L-550G Economical vacuum bagging film

L-550G vacuum bagging film is available in wide sizes and has high elongation and high tensile strength. The enhanced physical values allow for added security even in harsh environments. L-550G is well suited for wind energy, marine, and other commercial applications.



Vacuum bagging films



Ippilon® KM1300 vacuum bag film. Infusion is a clean process, resin waste is reduced and emissions eliminated.



Big Blue L-100 vacuum bag film. Airtech manufactures wide, lower cost films, that work well for infusion process. Our films are robust for busy workshops.

Up to
16 metres
wide & no
seams

Airtech manufactured vacuum bag films made for infusion

Big Blue L-100

Widest Film

Maximum Use Temperature	Elongation	Tensile Strength	Film Sizes (inches)	Film Sizes (Metric) / Roll width
121°C	350%	21 Mpa	0,003" x 118" SWF x 738ft	75µm x 3m SWF x 225m (1,5m wide roll)
Description				
Big Blue L-100 vacuum bag film is a multi-layer film for applications where a wide film is required. It is suitable for resin infusion and wet lay-up where the cure temperature does not exceed 121°C.				
			0,003" x 157" SWF x 557ft	75µm x 4m SWF x 170m (2m wide roll)
			0,003" x 236" SWF x 360ft	75µm x 6m SWF x 110m (1,75m wide roll)
			0,003" x 315" DWF x 272ft	75µm x 8m DWF x 83m (2,20m wide roll)
			0,003" x 394" DWF x 219ft	75µm x 10m DWF x 67m (1,70m wide roll)
			0,003" x 472" MWF x 183ft	75µm x 12m MWF x 56m (1,70m wide roll)
			0,003" x 551" MWF x 98ft	75µm x 14m MWF x 30m (2m wide roll)
			0,003" x 630" MWF x 98ft	75µm x 16m MWF x 30m (2,30m wide roll)



Securlon® L-500Y

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric) / Film Width
171°C	350%	34 Mpa	0,002" x 100" G x 492ft	50µm x 2,54m G x 150m (6,50m wide film)
Description				
Securlon® L-500Y vacuum bag is a wide multi-layer extruded film providing multiple layers of safety. These layers reduce the concerns for "pinholes", weak spots, brittleness and inconsistency in films. It is strong, has a high elongation and is suitable for cure temperature up to 171°C. Securlon® L-500Y is not recommended for autoclave applications.				
			0,002" x 120" G x 550ft	50µm x 3,05m G x 167,7m (7,60m wide film)
			0,002" x 121,5" G x 558ft	50µm x 3,09m G x 170m (8,0m wide film)



L-550G

New Low Cost Film

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric) / Film Width
171°C	400%	52 Mpa	0,002" x 60" SHT x 1000ft	50µm x 1,52m SHT x 304m (1,52m wide film)
Description				
L-550G vacuum bagging film is available in wide sizes and has high elongation and high tensile strength. The enhanced physical values allow for added security even in harsh environments. L-550G is well suited for wind energy, marine, and other commercial applications.				
			0,002" x 60" CF x 1000ft	50µm x 1,52m CF x 304m (3,04m wide film)
			0,002" x 80" SHT x 750ft	50µm x 2,03m SHT x 229m (2,03m wide film)
			0,002" x 80" CF x 750ft	50µm x 2,03m CF x 229m (4,06m wide film)
			0,002" x 90" CF x 750ft	50µm x 2,29m CF x 229m (4,58m wide film)
			0,002" x 100" CF x 400ft	50µm x 2,54m CF x 122m (5,08m wide film)
			0,002" x 118,5" CF x 420ft	50µm x 3,00m CF x 128m (6,00m wide film)
			0,002" x 120" CF x 400ft	50µm x 3,05m CF x 122m (6,10m wide film)



Ipplon® KM1300

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric) / Film Width
212°C	450%	48 MPa	0,002" x 140" CF x 500ft	50µm x 3,56m CF x 152m (7,12m wide film)
Description				
Ipplon® KM1300 is a vacuum bagging film with a good elongation and is suitable for cure temperatures up to 212°C. It is recommended for bagging applications where a higher softness is required. An excellent film for autoclave use or resin infusion.				
			0,002" x 127" G x 375ft	50µm x 3,22m G x 114,3m (9,00m wide film)



Wrightlon® 600V

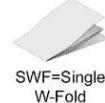
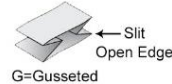
Strongest Film

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric) / Film Width
204°C	400%	65 MPa	0,002" x 60" SHT x 1000ft	50µm x 1,52m SHT x 304m (1,52m wide film)
Description				
Wrightlon® 600V vacuum bagging film is designed for low cost, commercial applications. It has good elongation and stays soft in low humidity conditions.				
			0,002" x 60" CF x 1000ft	50µm x 1,52m CF x 304m (3,04m wide film)
			0,002" x 80" SHT x 750ft	50µm x 2,03m SHT x 229m (2,03m wide film)
			0,002" x 80" CF x 750ft	50µm x 2,03m CF x 229m (4,06m wide film)
			0,002" x 90" CF x 750ft	50µm x 2,29m CF x 229m (4,58m wide film)
			0,002" x 110" CF x 427ft	50µm x 2,79m CF x 130m (5,58m wide film)
			0,002" x 128" CF x 427ft	50µm x 3,25m CF x 130m (6,50m wide film)



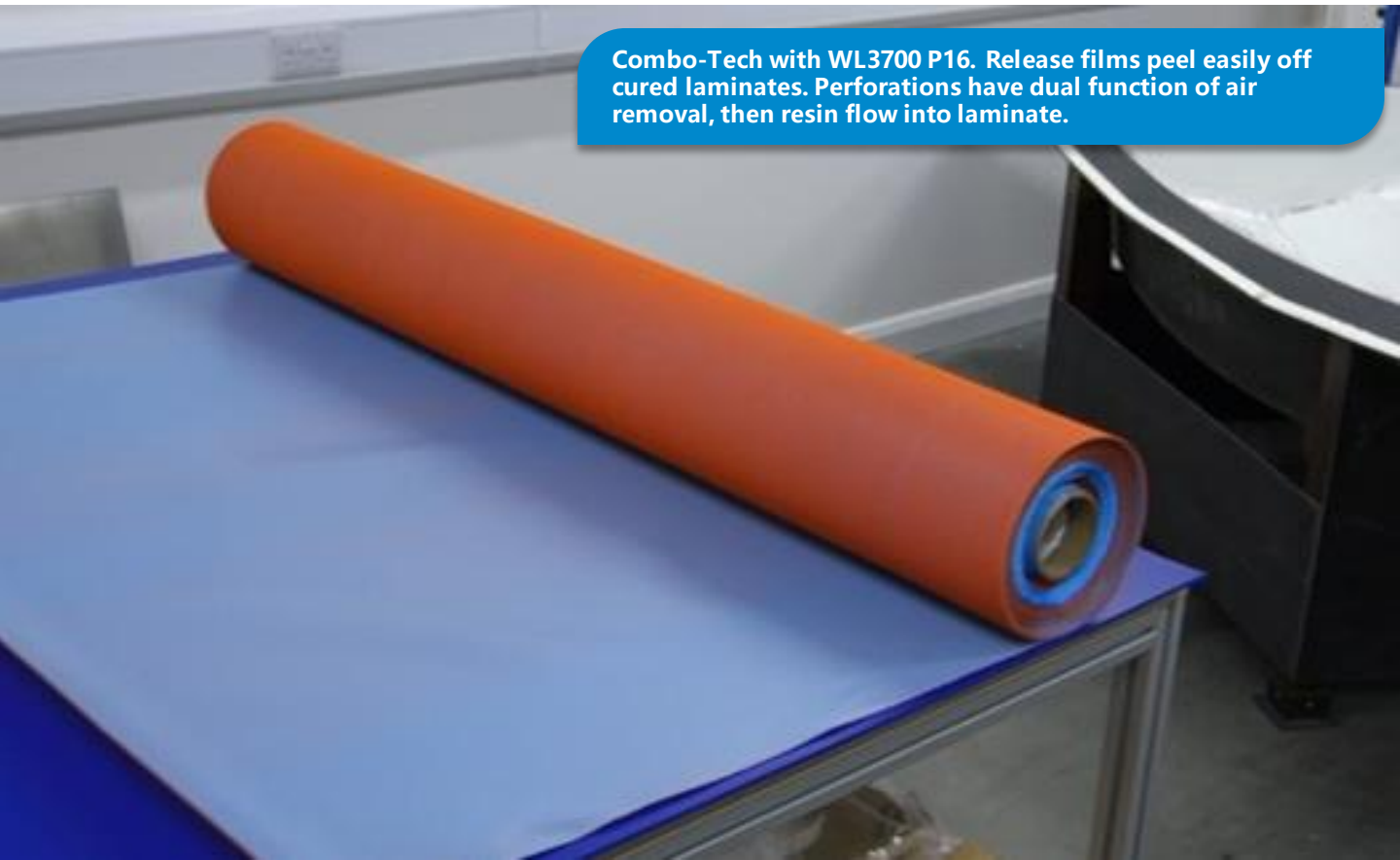
NOTES:

- Other products are available, please visit www.airtech.lu for full product selection.
- Other sizes are available on special order, please contact your Airtech customer service representative for complete details.



Release films

Combo-Tech with WL3700 P16. Release films peel easily off cured laminates. Perforations have dual function of air removal, then resin flow into laminate.



WL3700 P16 perforated film made by Airtech for low cost infusion processing.



Perforated release films made for infusion

Wrightlon® 3700

Low Cost Film

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	350%	21 Mpa	WL3700	0,001" x 60" x 2000ft	25µm x 1,52m x 609m
Description			WL3700 P3	0,001" x 60" x 2000ft	25µm x 1,52m x 609m
			WL3700 P16	0,001" x 60" x 2000ft	25µm x 1,52m x 609m

Wrightlon® 3700 is a release film that is designed for low cost applications. Wrightlon® 3700 will release from epoxy, polyester and vinyl ester resin systems.



Dahlar® Release Bag 125

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
140°C	400%	65 Mpa	RBG125	0,001" x 60" x 2000ft	25µm x 1,52m x 609m
Description			RBG125 P3	0,001" x 60" x 2000ft	25µm x 1,52m x 609m

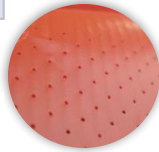
Dahlar® Release Bag 125 is an economical film designed for release film applications. It can be used for cures up to 140°C and will release from most resins. Dahlar® Release Bag 125 has a good tear resistance and elongation.



Wrightlon® 3900

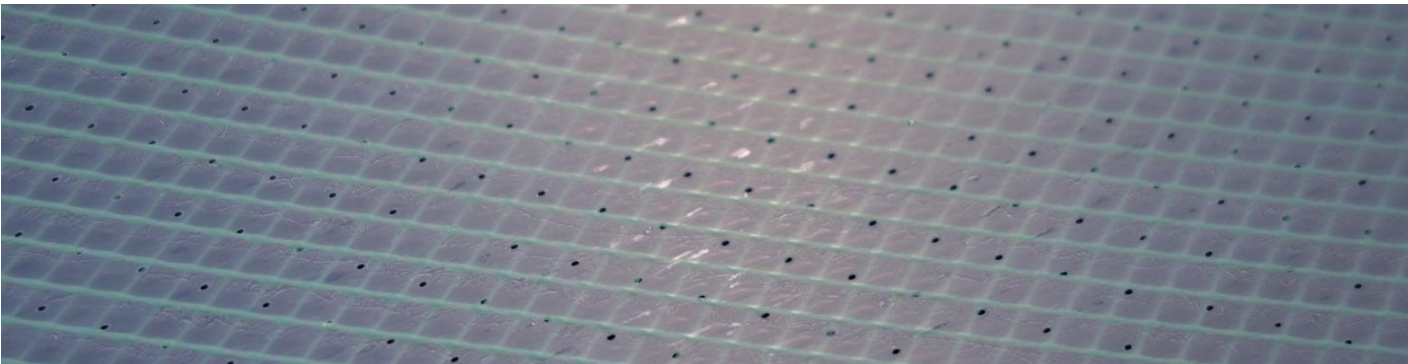
Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
157°C	500%	41 Mpa	WL 3900R	0,0012" x 60" x 3280ft	30µm x 1,52m x 1000m
Description			WL 3900R	0,0012" x 60" x 328ft	30µm x 1,52m x 100m
			WL 3900R P3	0,0012" x 60" x 3280ft	30µm x 1,52m x 1000m
			WL 3900R P3	0,0012" x 60" x 328ft	30µm x 1,52m x 100m

Wrightlon® 3900 release film is a high elongation film which will exhibit excellent release properties from polyester, vinyl ester and epoxy resin systems. It will take temperature up to 157°C.



NOTES:

- Other products are available, please visit www.airtech.lu for full product selection.
- Other sizes are available on special order, please contact your Airtech customer service representative for complete details.
- Other perforations also available.



Commonly used perforations

Perforation Style	Nominal Hole Diameter	Description (Inches)	Description (Metric)	Maximum Width
P	0,045 inch (1,143 mm)	Staggered 0,25 inch centres	Staggered 6,3 mm centres	72 inches (182,9 cm)
P3	0,015 inch (0,381 mm)	Staggered 0,25 inch centres	Staggered 6,3 mm centres	72 inches (182,9 cm)
P16	0,016 inch (0,406 mm)	Staggered 0,118 inch centres	Staggered 3,0 mm centres	72 inches (182,9 cm)
MP22	0,016 inch (0,406 mm)	Staggered 0,059 inch centres	Staggered 1,5 mm centres	72 inches (182,9 cm)

Pressure sensitive tapes



Flashbreaker® Orange in infusion setup. Tapes hold infusion materials in the right place, avoiding mistakes and scrap parts



Airhold 10 CBS fabric double sided adhesive tape holding spiral tubing in place over Wrightlease 2 release tape.

Tapes for holding, fixing, masking, releasing and protecting

EconoTape 1

Low Cost Tape

Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
177°C	Polyester	Silicone	Green	1" x 72 yards 2" x 72 yards	25mm x 66m 50mm x 66m
Description					

EconoTape 1 is an inexpensive, multipurpose, silicone based adhesive, pressure sensitive tape. This tape can be used for holding down vacuum bagging materials, thermocouples, and other lay-up items. EconoTape 1 can be used for room temperature to 177°C applications.



Airhold 10 CBS

Workshop Essential

Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
60°C	Cloth	Rubber	White	1" x 36 yards 2" x 36 yards	25mm x 33m 50mm x 33m
Description					

Airhold 10 CBS is a double-sided fabric reinforced tape with a rubber based adhesive on both sides. It can also be used to hold down plastic spiral wrap used as a vacuum manifold in the resin infusion process.



Wrightlease 2

Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	Fluoropolymer	Silicone	Orange	1" x 36 yards 2" x 36 yards	25mm x 33m 50mm x 33m
Description					

Wrightlease is a non-stick tape for applications where resin release is required. The orange color is highly visible on most substrates in addition to offering high elongation and tensile strength. Wrightlease 2 has 0,002" thick film and is a low cost non-stick tape solution.



Wrightlease 4

Strongest Release Tape

Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	Fluoropolymer	Silicone	Orange	1" x 36 yards 2" x 36 yards	25mm x 33m 50mm x 33m
Description					

Wrightlease is a non-stick tape for applications where resin release is required. The orange color is highly visible on most substrates in addition to offering high elongation and tensile strength. Wrightlease 4 has 0,004" thick film, is stronger and tougher and is a low cost non-stick tape solution for demanding applications.



Teflease MG2

Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	PTFE	Silicone	Brown	1/2" x 36 yards 5/8" x 36 yards 3/4" x 36 yards 1" x 36 yards 2" x 36 yards 1 1/2" x 36 yards 4" x 36 yards	12mm x 33m 15mm x 33m 19mm x 33m 25mm x 33m 50mm x 33m 38mm x 33m 100mm x 33m
Description					

Teflease MG2 is a PTFE film coated with a silicone adhesive. They are ideal for use on tooling blocks and all areas where high elongation and release is needed. Teflease MG tapes will form to critical contours and mould surfaces while offering multiple releases or may be used to cover multiple detail mould seams.



Flashbreaker® 1

High Temperature Tape

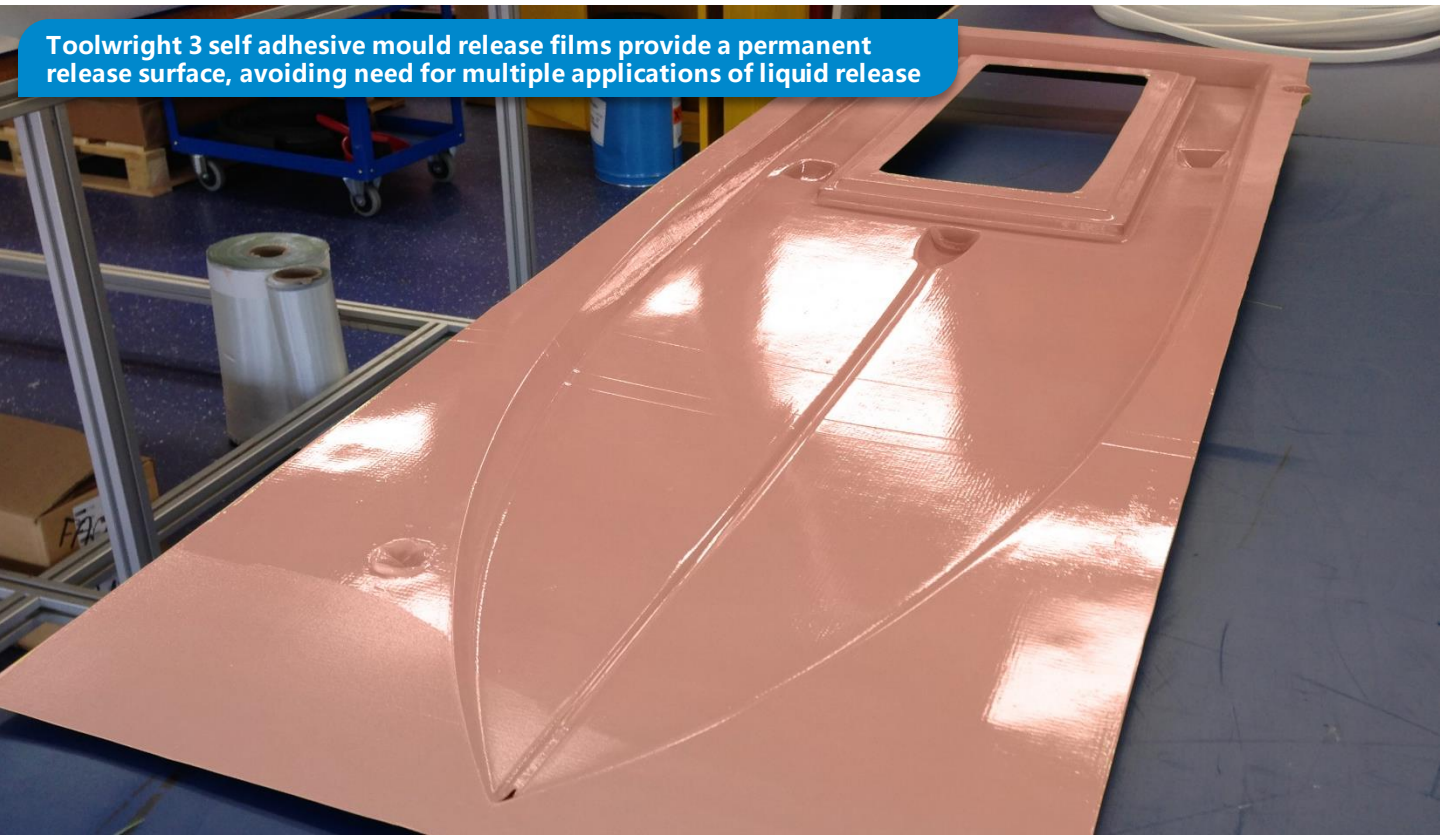
Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	Silicone	Blue or Orange	1" x 72 yards 2" x 72 yards	25mm x 66m 50mm x 66m
Description					

Flashbreaker® tapes are high strength polyester films coated with a silicone adhesive for multipurpose functions such as holding down vacuum bagging materials. Flashbreaker® tapes remove easily after cure. The orange Flashbreaker® tapes have high visibility when placed on parts and moulds.

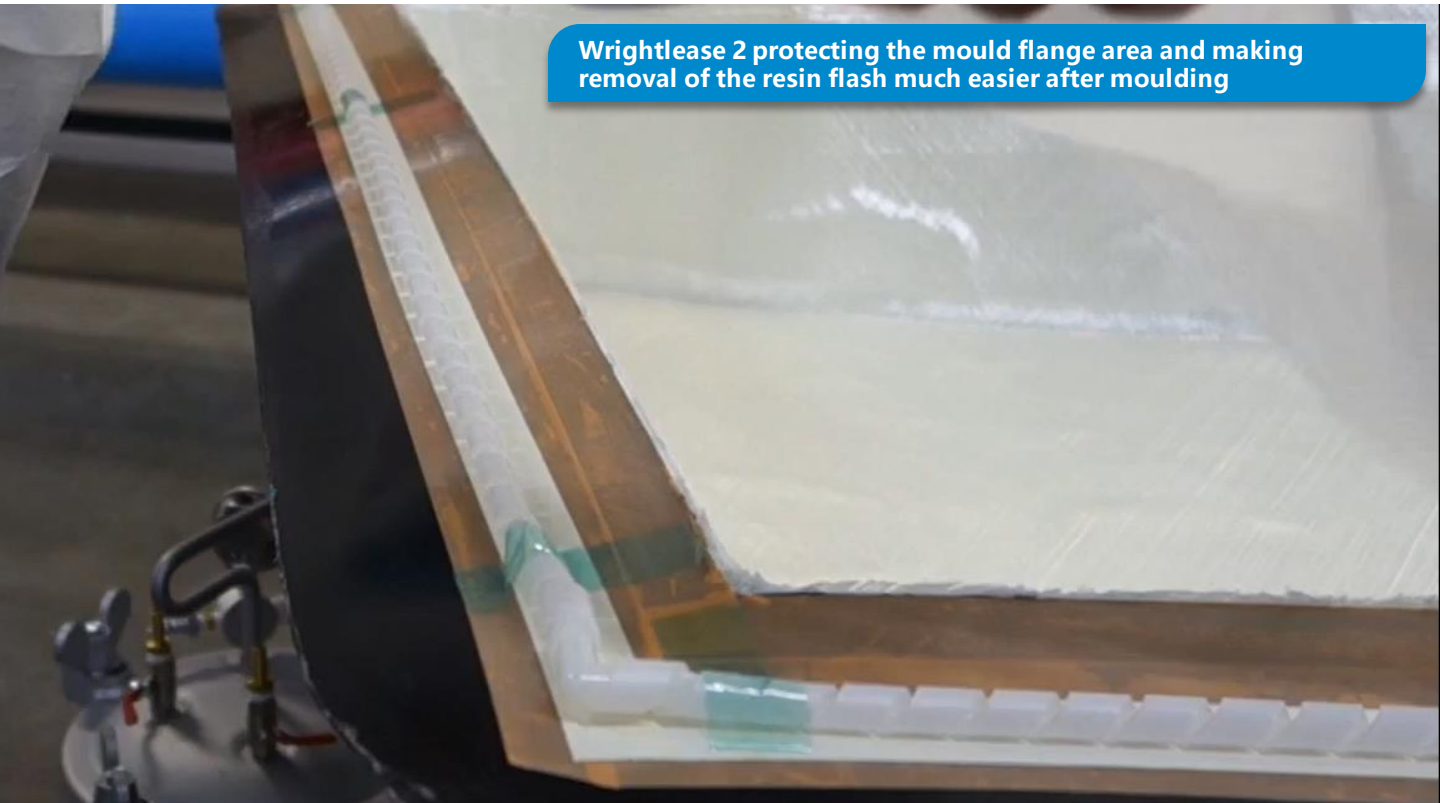


Mould release

Toolwright 3 self adhesive mould release films provide a permanent release surface, avoiding need for multiple applications of liquid release



Wrightlease 2 protecting the mould flange area and making removal of the resin flash much easier after moulding



Release films and fabrics with adhesive for permanent tool release

Tooltec® A005

Maximum Use Temperature	Fabric	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	75µm PTFE Coated Fibreglass	Silicone	125µm		
Description				1" x 36 yards	25mm x 33m

Tooltec® A005 pressure sensitive tape is designed to adhere to tool surfaces providing semi-permanent release and a reconditioned surface. It can be used on all types of moulds, press platens, caul sheets or any surface that comes in contact with resins or adhesives. Release agents are not required on the mould surface thereby reducing cost and parts contamination.

2" x 36 yards	50mm x 33m
39" x 18 yards	1,00m x 16,5m
48" x 18 yards	1,22m x 16,5m
59" x 18 yards	1,50m x 16,5m



Tooltec® A007

Hard Wearing Option

Maximum Use Temperature	Fabric	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	125µm PTFE Coated Fibreglass	Silicone	175µm		
Description				1" x 36 yards	25mm x 33m

Tooltec® A007 pressure sensitive tape is designed to adhere to tool surfaces providing semi-permanent release and a reconditioned surface. It can be used on all types of moulds, press platens, caul sheets or any surface that comes in contact with resins or adhesives. Release agents are not required on the mould surface thereby reducing cost and parts contamination.

39" x 18 yards	1,00m x 16,5m
48" x 18 yards	1,22m x 16,5m



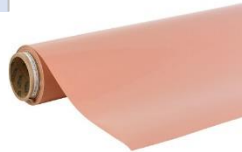
Toolwright 3

Low Cost Release

Maximum Use Temperature	Film Carrier	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	50µm extruded fluoropolymer	Silicone	75µm		
Description				50" x 18 yards	1,27m x 16,5m

Toolwright 3 is a light orange extruded fluoropolymer film coated with silicone pressure sensitive adhesive. Toolwright 3 has high elongation, good tear strength, high temperature resistance and excellent clean up after removal.

50" x 18 yards	1,27m x 16,5m
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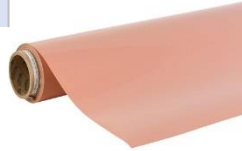


Toolwright 5

Maximum Use Temperature	Film Carrier	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	100µm Extruded Fluoropolymer	Silicone	125µm		
Description				46" x 18 yards	1,17m x 16,5m

Toolwright 5 is an extruded fluoropolymer film coated with silicone pressure sensitive adhesive. The orange colour is highly visible on most substrates in addition to offering high elongation and tensile strength.

46" x 18 yards	1,17m x 16,5m
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Tooltec® CS5

Super Gloss Finish

Maximum Use Temperature	Film Carrier	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	127µm PTFE	Silicone	165µm		
Description				4" x 18 yards	100mm x 16,5m

Tooltec® CS5 is a PTFE film coated with a high temperature silicone pressure sensitive adhesive. It can be used to seal masters and leaky tool surfaces while providing semi-permanent and contamination free part release. Tooltec® CS5 is a non-reinforced mould surface reconditioning tape allowing conformance to complex contours and providing a semi-permanent release for contoured shapes.

39" x 18 yards	1,00m x 16,5m
48" x 18 yards	1,22m x 16,5m



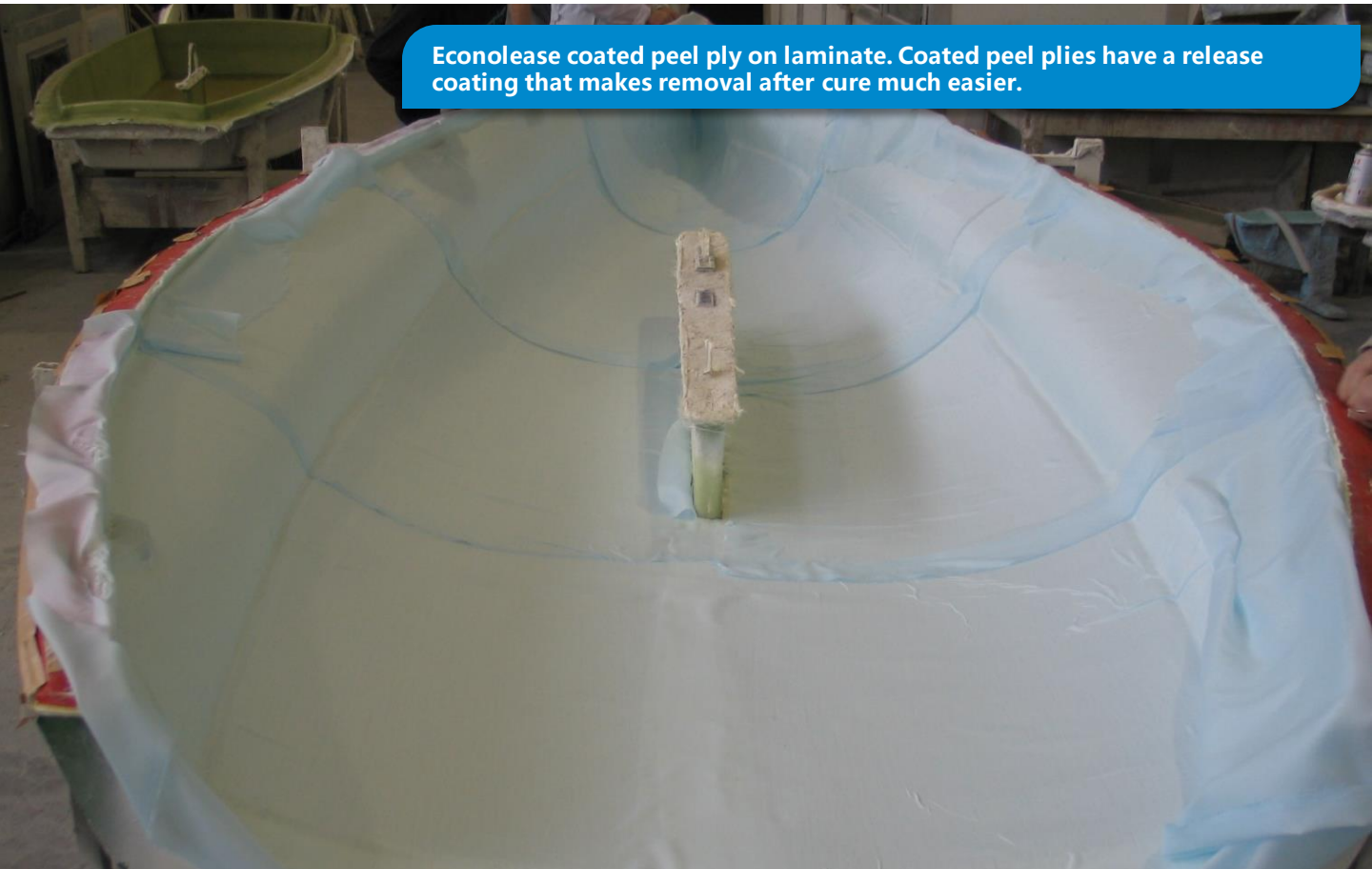
NOTES:

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- Other sizes are available on special order, please contact your Airtech customer service representative for complete details.

Release fabrics & Peel ply



Econostitch® peel ply applied to part. Peel ply fabrics peeled off after cure leaving textured surfaces for paint & bonding preparation.



Econolease coated peel ply on laminate. Coated peel plies have a release coating that makes removal after cure much easier.

Fabrics for textured surfaces for paint & bonding preparation

Econostitch®

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
190°C	Nylon	88 g/m ²	White / Red Tracer	2" x 218 yards 4" x 100 yards 8" x 100 yards 20" x 100 yards 30" x 100 yards 60" x 100 yards 60" x 300 yards	50mm x 200m 100mm x 91m 200mm x 91m 500mm x 91m 750mm x 91m 1,52m x 91m 1,52m x 274m
Description					

Econostitch® is a nylon peel ply with red tracers which make this peel ply more visible before and after a cure, reducing the possibility of the peel ply being left on the part.

Note: Slit width sizes are available but may be subject to minimum order quantity and lead time, please contact us for details.



Econostitch® G

Infusion Essential

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
190°C	Polyester	85 g/m ²	White / Black Tracer	2" x 218 yards 4" x 218 yards 8" x 218 yards 20" x 218 yards 35" x 218 yards 71" x 218 yards	50mm x 200m 100mm x 200m 200mm x 200m 500mm x 200m 900mm x 200m 1,80m x 200m
Description					

Econostitch® G is an economical peel ply with good performance when used with both polyester and epoxy resins. It has black tracers with high visibility to reduce the risk of peel ply being left on the part. Econostitch® G Fluorescent assists or eliminates the need for sanding or abrading on your composite laminate.

Note: Slit width sizes are available but may be subject to minimum order quantity and lead time, please contact us for details.

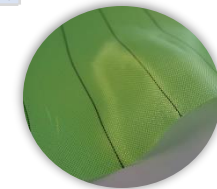


Econostitch® G Fluorescent

High Visibility

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
190°C	Polyester	85 g/m ²	Fluoro Green / Black Tracer	71" x 218 yards	1,80m x 200m
Description					

Econostitch® G Fluorescent is an economical peel ply with good performance when used with both polyester and epoxy resins. It has black tracers with high visibility to reduce the risk of peel ply being left on the part. Econostitch® G Fluorescent assists or eliminates the need for sanding or abrading on your composite laminate.



Stik-Ply® N80P

Self Adhesive Porous Peel Ply

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
200°C	Nylon	80 g/m ²	White / Blue - Red Tracer	61" x 110 yards	1,55m x 100m
Description					

Stik-Ply® N80P is a nylon peel ply with tracers and an acrylic adhesive coating. The peel ply can be applied easily to complex surfaces without spray adhesives. The adhesive coating is porous and allows resin to bleed through.



Econolease

Easy Release

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Nylon Silicone Coated	61 g/m ²	Light blue	60" x 100 yards	1,52m x 91m
Description					

Econolease is a silicone treated nylon peel ply which provides greater release in difficult environments. Our Econo peel plies are designed to work in resin infusion or hand lay-up processes. All coated peel plies have the potential to transfer.



Release Ease® 234 TFP

Maximum Use Temperature	Fibre Type	Thickness	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
288°C	PTFE Coated Fibreglass	60 µm	Brown	38" x 100 yards 40" x 110 yards 50" x 100 yards 50" x 110 yards 60" x 100 yards	0,97m x 91m 1,00m x 100m 1,27m x 91m 1,27m x 100m 1,52m x 91m
Description					

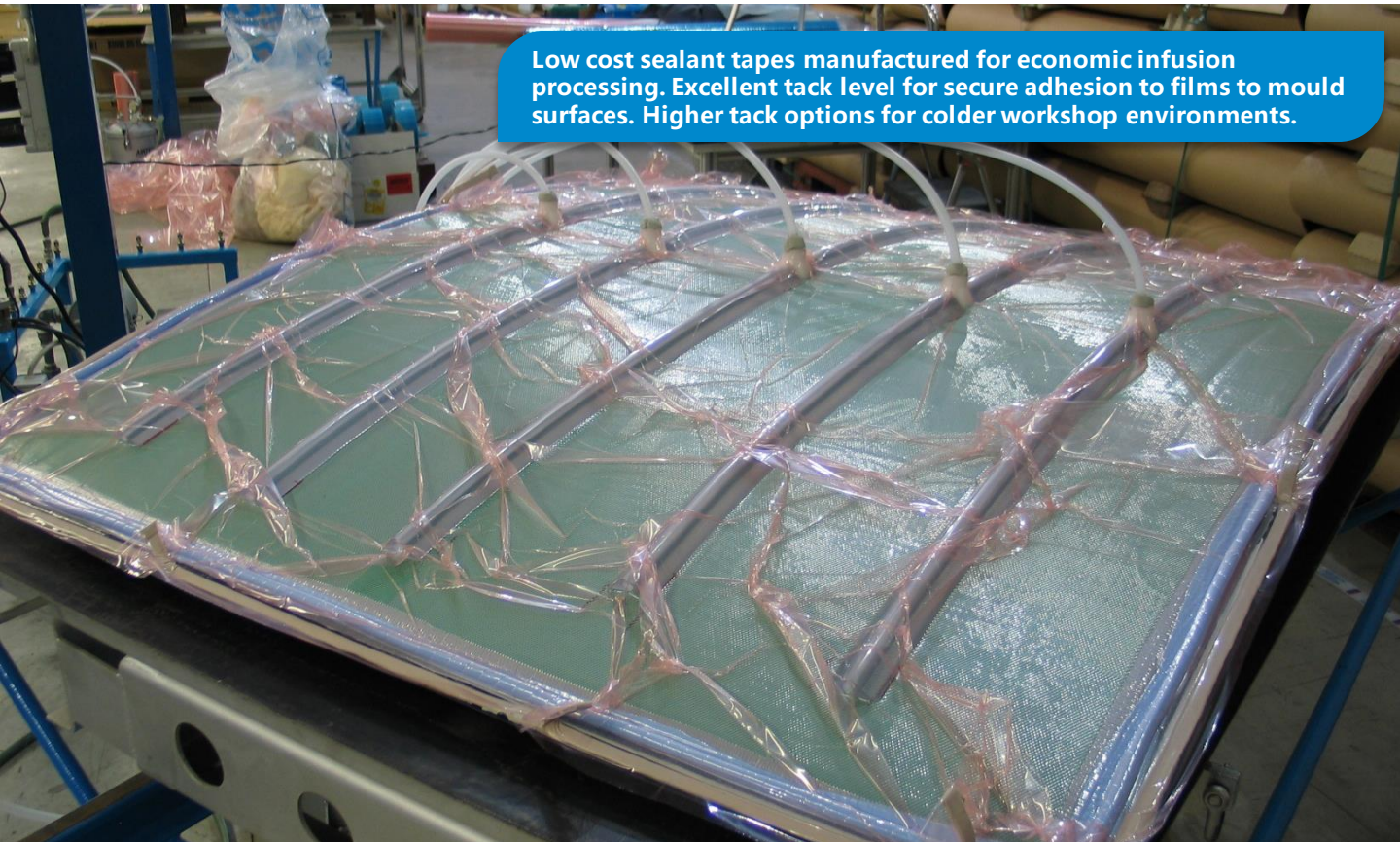
Release Ease® PTFE coated fibreglass fabrics will provide release from all conventional resin systems. Porous products will allow excess resin, volatiles and trapped air to escape into the breather during cure while non-porous products will retain resin. Release Ease® products have a continuous service temperature to 288°C.



Vacuum sealant tapes



Closing a large vacuum bag with sealant tape. Tapes can join bag to bag seams and seal vac bags to tool surfaces. "Pleats" can be made with tape to tailor the bag shape to fit the mould.



Low cost sealant tapes manufactured for economic infusion processing. Excellent tack level for secure adhesion to films to mould surfaces. Higher tack options for colder workshop environments.

Sealing vacuum bags to tools & sealing around tubing connections

AS1

Low Cost Tape

Maximum Use Temperature	Colour	Base Material	Tack Level	Roll Sizes
120°C	Black	Synthetic rubber	Good tack	3mm x 12mm x 15m
Description				

AS1 is an economical multi-purpose sealant tape with high tack. It removes easily from metal or composite tools. Suitable for cure applications up to 120°C.



Airseal 2T

Workshop Essential

Maximum Use Temperature	Colour	Base Material	Tack Level	Roll Sizes
150 °C bag to tool 180 °C bag to bag	Black	Synthetic rubber	High tack	3mm x 12mm x 15m 3mm x 9mm x 15m 2mm x 10mm x 20m 2mm x 7mm x 20m Ø 4mm Bead x 7,5m
Description				

Airseal 2T is a cost effective vacuum bag sealant tape for room and medium temperature applications. Airseal 2T has excellent tack, firm feel, good clean-up and long shelf life. It can also be used for higher temperature envelope bag applications. Airseal 2 Tacky has superior tack for colder environments.



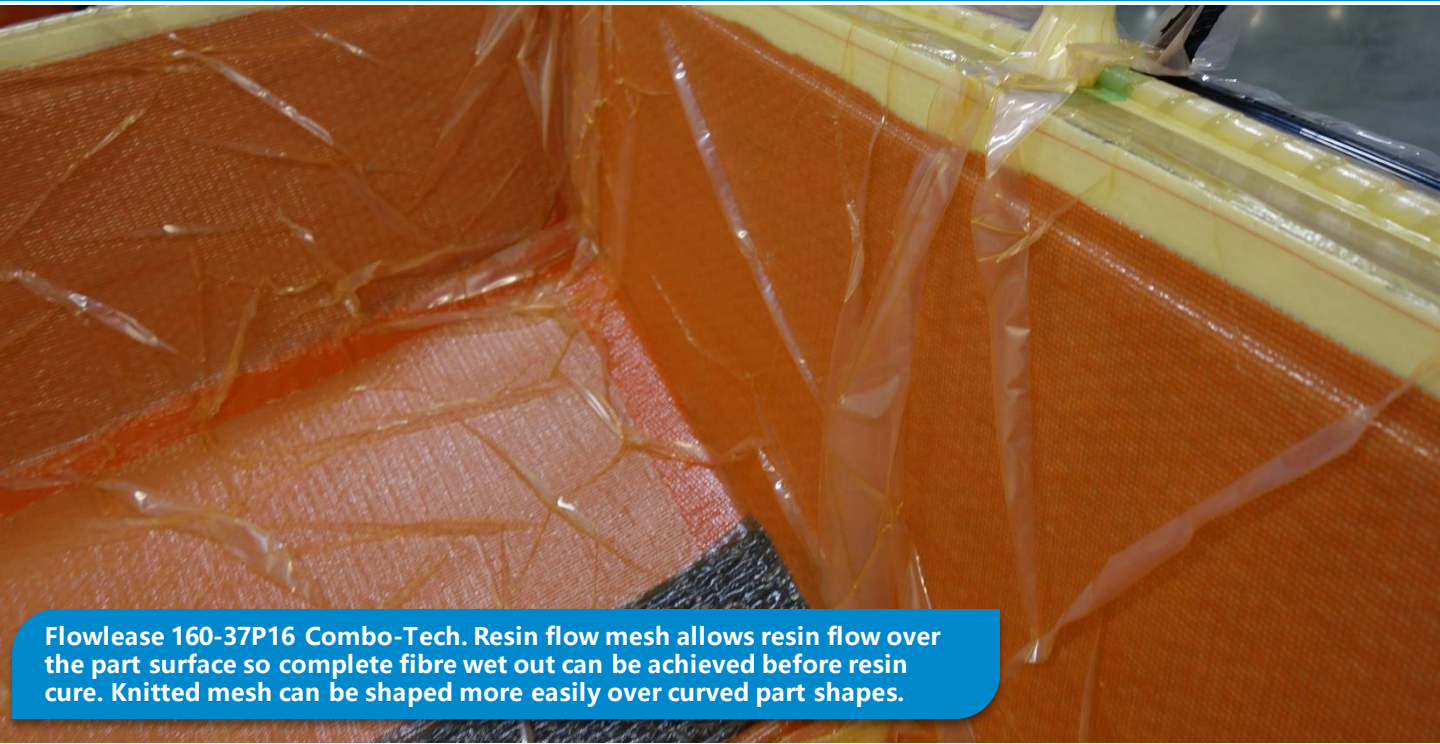
AT-200Y

Maximum Use Temperature	Colour	Base Material	Tack Level	Roll Sizes
204 °C	Yellow	Synthetic rubber	High tack	3mm x 12mm x 7,6m
Description				

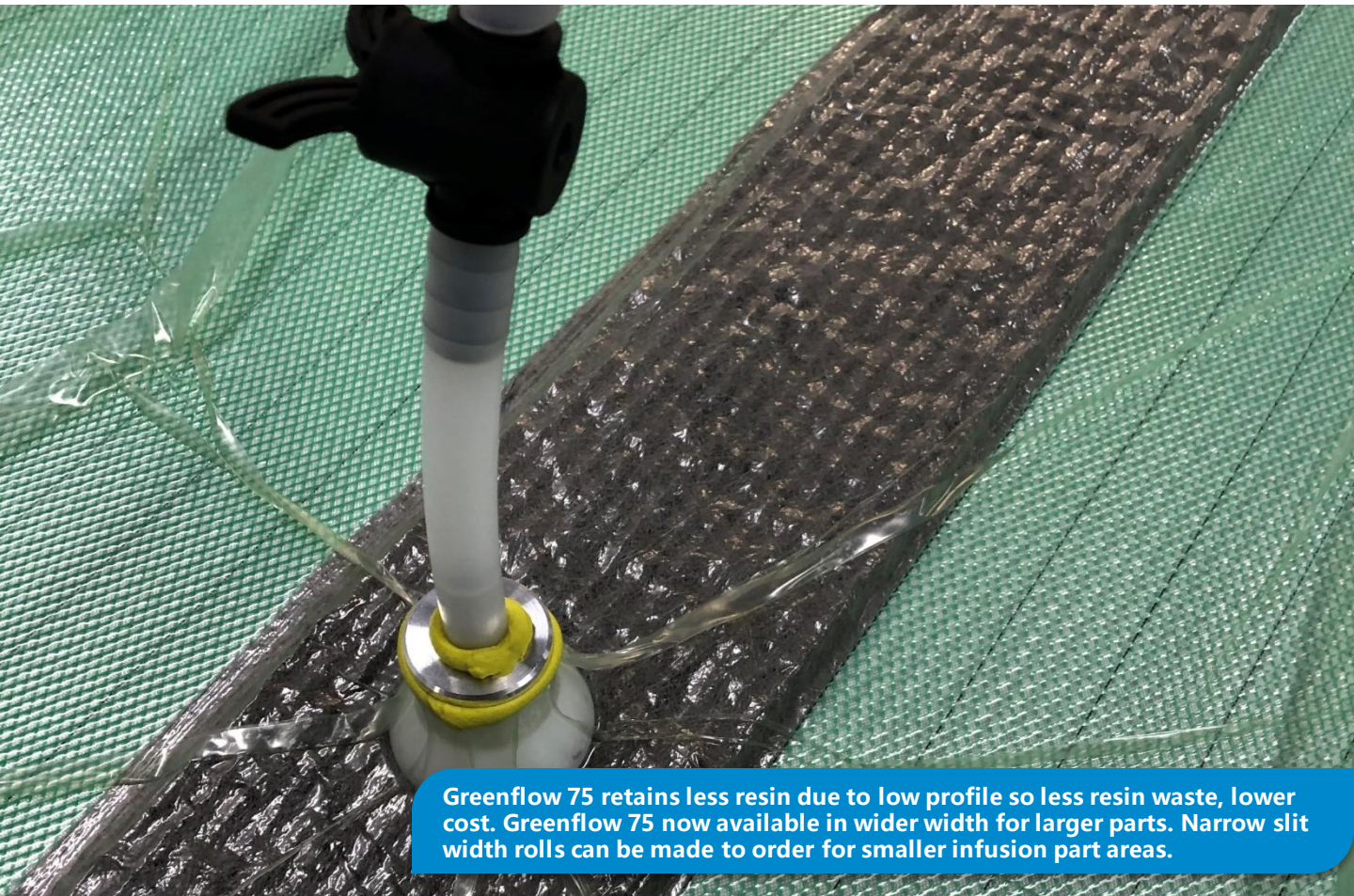
AT-200Y is an economical multi-purpose sealant tape with high tack. It removes easily from metal or composite tools. It is suitable for cure applications up to 204°C.



Resin flow mesh



Flowlease 160-37P16 Combo-Tech. Resin flow mesh allows resin flow over the part surface so complete fibre wet out can be achieved before resin cure. Knitted mesh can be shaped more easily over curved part shapes.



Greenflow 75 retains less resin due to low profile so less resin waste, lower cost. Greenflow 75 now available in wider width for larger parts. Narrow slit width rolls can be made to order for smaller infusion part areas.

Resin flow mesh for flow over part surfaces

Greenflow 75

Low Resin Waste

Maximum Use Temperature	Mesh Weight	Material	Resin Flow Speed	Roll Sizes (Inches)	Roll Sizes (Metric)
150°C	98 g/m ²	Extruded PP	Medium	0,03" x 41" x 350ft	0,9mm x 1,04m x 106m
Description				0,03" x 60" x 350ft	0,9mm x 1,52m x 106m

Greenflow 75 is designed to efficiently distribute resin with little waste due to the low profile, tight construction. Greenflow 75 can be used with polyester, vinylester and epoxy resins.



Knitflow 160

Fastest Resin Flow

Maximum Use Temperature	Mesh Weight	Material	Resin Flow Speed	Roll Sizes (Inches)	Roll Sizes (Metric)
125°C	160 g/m ²	Knitted HDPE	High	0,059" x 59" x 328ft	1,5mm x 1,5m x 100m
Description					

Knitflow 160 is designed to assist resin flow through the part during the vacuum assisted resin infusion process. This resin flow medium works well with polyester, vinylester and epoxy resins. Knitflow 160 is a highly drapable knitted flow medium with a high resin flow speed for most resins.

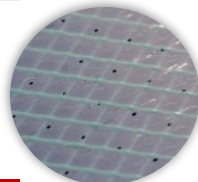


Flowlease 75-37P16 Combo-Tech

Time Saving & Low Waste

Maximum Use Temperature	Mesh Type	Release Type	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	Greenflow 75	WL3700P16	59" x 328ft	1,50m x 100m
Description				

Flowlease combines flow mesh with perforated release film. Great labour savings can be achieved by having combination of products applied in one operation as opposed to applying one layer at a time.

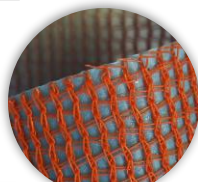


Flowlease 160-37P16 Combo-Tech

Time Saving & Fast Infusion

Maximum Use Temperature	Mesh Type	Release Type	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	Knitflow 160	WL3700P16	59" x 328ft	1,50m x 100m
Description				

Flowlease combines flow mesh with perforated release film. Great labour savings can be achieved by having combination of products applied in one operation as opposed to applying one layer at a time.



Flowpeel 160-37P16-ES Combo-Tech

Big Time Savings

Maximum Use Temperature	Mesh Type	Release Type	Peel Ply	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	Knitflow 160	WL3700P16	Econostitch	60" x 295ft	1,52m x 90m
Description					

Flowpeel combines flow mesh with perforated release film and peel ply fabric. Great labour savings can be achieved by having combination of products applied in one operation as opposed to applying one layer at a time.

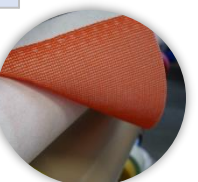


Flowlease 160-PP200 Combo-Tech

Easy Release Combo

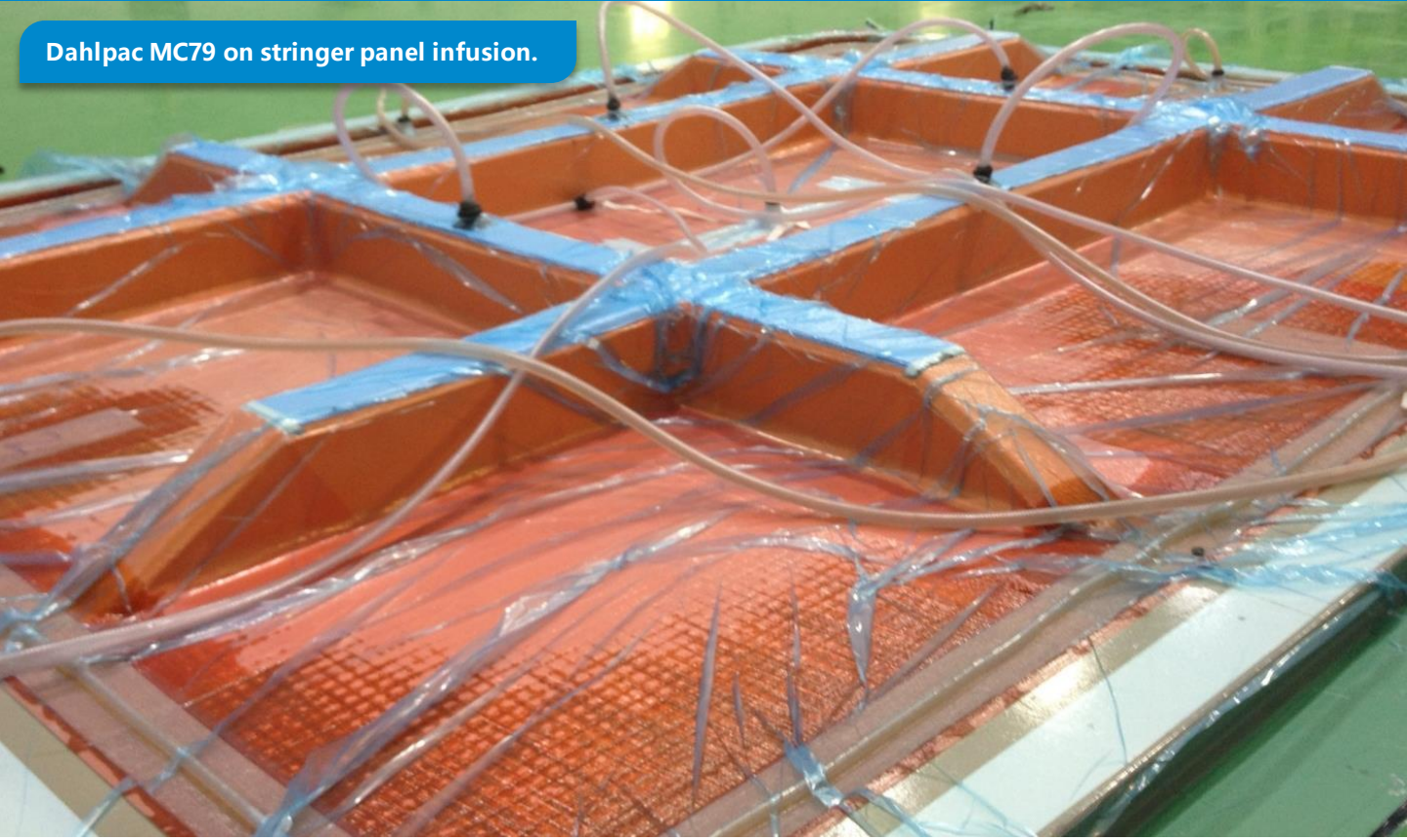
Maximum Use Temperature	Mesh Type	Release Ply Material Type	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	Knitflow 160	Non-woven polypropylene	59" x 55yds	1,50m x 50m
Description				

Flowlease 160-PP200 combines a high weight knitted flow mesh with a layer of our PP200 non-woven release ply and is intended to be used in resin infusion applications. Due to the high open structure of the knitted mesh, the high resin infusion flow can be achieved with most resin types.



Resin feed & vacuum manifolds

Dahlpac MC79 on stringer panel infusion.



Flowstrip 4.0 has high contact area for high resin flow and simplifies the bagging process



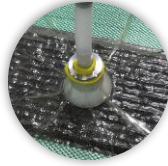
Draw vacuum and feed resin easily and efficiently

Flowstrip 2.0 & 4.0

High Speed Flow

Maximum Use Temperature	Material	Item	Roll Sizes (Inches)	Roll Sizes (Metric)
155°C	PP Mesh in polyester sleeve			
Description		Flowstrip 2.0	2" x 27 yards	50mm x 25m
		Flowstrip 4.0	4" x 27 yards	100mm x 25m

Flowstrip is a lay flat resin feed channel constructed with a high speed 3D mesh inside a highly porous non-woven polyester sleeve. Flowstrip is an extremely efficient resin flow channel which is easy to position on infusion laminates and vacuum bag.



Dahlvac MB80

No Bleed Manifold

Maximum Use Temperature	Material Type	Colour	Application	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	Dahltextx® SP-2 fabric with PE Spiral Wrap	Blue			
Description			Attaches easily to the mould using Airtac 2 LH or Airhold 10 CBS	2" x 33 yards	50mm x 30,48m

Dahlvac MB80 is an easy to use vacuum source designed for resin infusion. The internal spiral tube provides good vacuum flow and the outer layer of Dahltextx® SP-2 allows breathability while preventing resin from entering the vacuum channel.



Dahlpac MC79

Less Resin Waste

Maximum Use Temperature	Material Type	Colour	Application	Roll Sizes (Inches)	Roll Sizes (Metric)
125°C	Nylon fabric & PP Mesh	Blue			
Description			Edge of part vac manifolds & part surface vacuum lines	4" x 27 yards	100mm x 25m

Dahlpac MC79 is an easy to use strip material that allows vacuum to be applied over the surface of a composite laminate with no resin bleed out and little part mark-off.

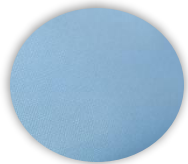
Dahlpac MC79 is constructed with Dahltextx® SP-2 fabric which breaths efficiently and can control resin flow.



Dahltextx® SP-2

Maximum Use Temperature	Fibre Type	Colour	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
177°C	Coated Nylon	Light blue fabric side / White coated side			
Description			140 g/m ²	58" x 164 yards	1,47m x 150m

Dahltextx® SP-2 is a coated peel ply which has air permeability but does not allow resin bleed through. Dahltextx® SP-2 can be used to prevent resin bleed into vacuum manifolds to avoid loss of vacuum on part area. Blue fabric side has a release coating to allow easy removal off laminate surface. White side is not self releasing.



ResinTrak & VacTrak

High Flexibility Option

Maximum Use Temperature	Material Type	Colour	Thickness	Width	Length
190°C	Polyester	White			
Description			3mm	43mm	25m

A 100% polyester 3D knitted tape with very high permeability that can be used as a resin feeder or vacuum channel. ResinTrak version will transport resin along the part surface and into the laminate. ResinTrak leaves no mark off on the part when used in conjunction with Airtech's flow media and release ply. VacTrak version is supplied with a self adhesive side for sticking to tool flanges as a vacuum channel.



Omega Flow Lines

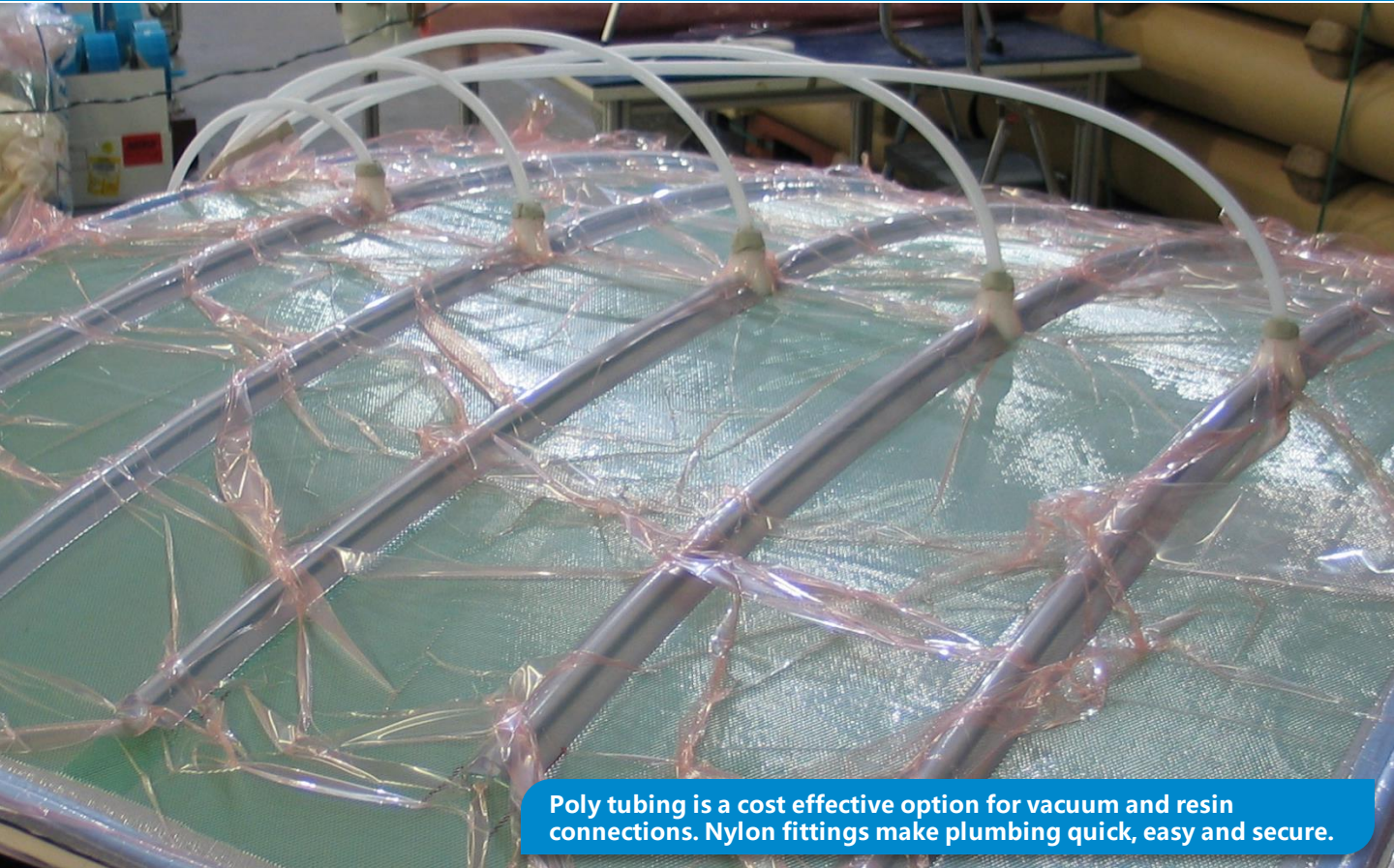
Reusable Feed Line

Product	Maximum Use Temperature	Material Type	Product Reference	Internal Diameter	Length
OmegaFlow V	71°C	Vinyl Rubber	OF 625V	0,625 inch (16mm)	100 feet (30,5m)
			OF 750V	0,750 inch (19mm)	100 feet (30,5m)
OmegaFlow	260°C	Silicone	OF 313	0,31 inch (8mm)	50 feet (15,2m)
Description			OF 500	0,50 inch (13mm)	50 feet (15,2m)
			OF 750	0,75 inch (19mm)	50 feet (15,2m)
			OF 1000	1 inch (25mm)	50 feet (15,2m)

Omega Flow Lines have an "Omega section" internally to transport resin along the surface and into the part. Made from translucent vinyl rubber (OFV) or silicone rubber, they are reusable and sized for use with our polyethylene tubes. Airtech's Omega Flow Lines leave minimal or no mark off on the part when used in conjunction with Airtech's flow media and peel ply.



Tubing and connectors



Poly tubing is a cost effective option for vacuum and resin connections. Nylon fittings make plumbing quick, easy and secure.



Twin infusions ready to go

Infusion essentials for making infusions simple & efficient

Poly Spiral

Infusion Essential

Maximum Use Temperature	Material	Sizes (Inches)	Sizes (Metric)	Use with
121°C	Polyethylene			
Description		3/8" O.D. x 1/4" I.D. x 82ft	9,5mm O.D. x 6,35mm I.D. x 25m	
Spiral tubing for resin feed lines and vacuum manifolds around part edge. Can be easily cut and connected with range of coupling, elbow and T fittings.		1/2" O.D. x 3/8" I.D. x 82ft	12,7mm O.D. x 9,5mm I.D. x 25m	3/8" fittings
		5/8" O.D. x 1/2" I.D. x 82ft	15,8mm O.D. x 12,7mm I.D. x 25m	1/2" fittings
		3/4" O.D. x 5/8" I.D. x 82ft	19mm O.D. x 15,8mm I.D. x 25m	5/8" fittings



Poly Tubing

Infusion Essential

Maximum Use Temperature	Material	Sizes (Inches)	Sizes (Metric)	Use with
121°C	Polyethylene tubing			
Description		1/2" O.D. x 3/8" I.D. x 82ft	12,7mm O.D. x 9,5mm I.D. x 25m	3/8" fittings
Tubing for resin feed and vacuum connections. Can be easily cut and connected with range of coupling, elbow and T fittings.		5/8" O.D. x 1/2" I.D. x 82ft	15,8mm O.D. x 12,7mm I.D. x 25m	1/2" fittings
		3/4" O.D. x 5/8" I.D. x 82ft	19mm O.D. x 15,8mm I.D. x 25m	5/8" fittings



RB 451 Vacuum catch pot

Infusion Essential

Description	Sizes (Gallons)	Sizes (Metric)	Use with
The RB 451 vacuum reservoir is designed to collect excess resin during the vacuum assisted resin transfer moulding process (VARTM). The RB 451 has 1 vacuum inlet and 3 resin inlets in order to be able to perform several infusions at the same time.	2,5 US Gallon Tank	10 litres	3/8", 1/2" & 5/8" fittings



Nylon Fittings

Maximum Use Temperature	Material	Type	Item	Sizes (Inches)
180°C	Nylon			
Description		Nylon Barb T Fitting	NTF38	3/8" x 3/8" x 3/8"
Nylon Spiral tubing and Nylon tubing can be easily cut and connected with range of coupling, elbow and T fittings.			NTF12	1/2" x 1/2" x 1/2"
			NTF58	5/8" x 5/8" x 5/8"
		Nylon Barb Elbow Fitting	NEF38	3/8" x 3/8"
			NEF12	1/2" x 1/2"
			NEF58	5/8" x 5/8"
		Nylon Barb Coupling Fitting	NCF38	3/8" x 3/8"
			NCF12	1/2" x 1/2"
			NCF58	5/8" x 5/8"
		Barb Fitting Infusion Valve	works with 3/8" I.D. Polyethylene tubing	



RIC Connector with spiral base

Maximum Use Temperature	Material	Tube Connection	Spiral Connection	Reference
80°C	UHMW Polyethylene			
Description		1/2"	1/2"	RIC 12
The Airtech Resin infusion connector (RIC) provides inexpensive and efficient through bag connection for use with spiral tube vacuum manifold and resin feed lines for low temperature resin infusion application.		5/8"	5/8"	RIC 58
		3/4"	3/4"	RIC 34



VAC-RIC LT Connector with flat base

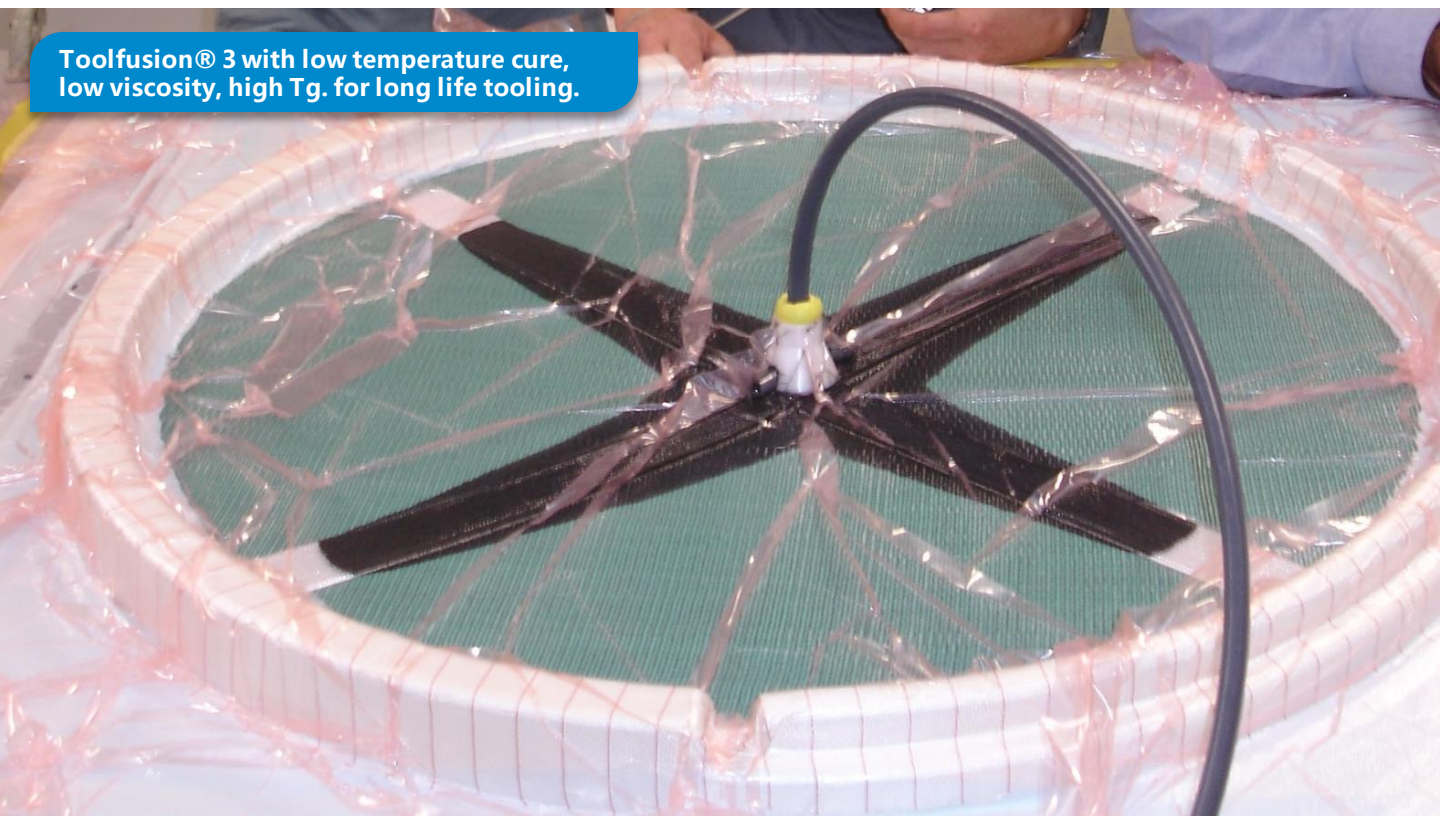
Maximum Use Temperature	Material	Tube Connection	Spiral Connection	Reference
80°C	UHMW Polyethylene			
Description		1/2"	Flat base	VAC-RIC LT 12
The Airtech Vac-Ric LT is a flat base connector for vacuum manifold and resin feed lines for low temperature resin infusion application.		5/8"	Flat base	VAC-RIC LT 58
		3/4"	Flat base	VAC-RIC LT 34



Infusion tooling & tools



Toolfusion® 1 infusion for composite mould. Infusion tooling is low cost and simple to manufacture of Mastermodels, tools or parts.



Toolfusion® 3 with low temperature cure, low viscosity, high Tg. for long life tooling.

Tools for infusing parts and resin for infusing mould tools

Tac-Strip

Maximum Use Temperature	Material Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
100°C	Fibreglass mesh	Acrylic	White	1" x 295 feet 2" x 295 feet	25mm x 90m 50mm x 90m
Description					

Tac-Strip is a fibreglass fabric mesh tape coated on both sides with a "high-tack" pressure sensitive adhesive. Tac-Strip is designed to hold dry fabrics in place as required when using resin infusion, resin transfer moulding, and other processes requiring dry fabric lay-up. Tac-Strip has the added advantage of being very clean when compared to spray adhesives commonly used for ply placement.



Airtac 2 LH Spray Adhesive

Low Hazard

Spray Style	Material Type	Characteristics	Colour	Can Size	Cans Per Case
Fine mist	Rubber based	Methylene chloride free, toluene free	Clear	500ml	12 cans / case
Description					

Airtac 2 LH is a spray adhesive designed for temporary bonding. Airtac 2 LH can be used to hold dry materials on contours and vertical surfaces. This product is ideally suited to resin infusion applications for holding plies, release films, peel plies, and infusion mesh in place until the vacuum bag is secured. Airtac 2 LH has a fine mist spray pattern.



Airsweep

Description	Product Reference	Colour	Material	Length
Airsweep are laminating tools for laminating prepregs, lay-up of dry fabrics and positioning of vacuum bag materials into corner features.	Airsweep	White	HDPE	10cm
	Airsweep R2 (with handle)	White	UHMW PE	11,5cm
	Airsweep R3 (with handle)	Black	Nylon	11,5cm



Shop Shears

Description	Product Reference	Type	Length	Weight
Shop shears are lightweight and stronger than most all metal shears. The Shop shears have larger handles to reduce stress and thicker blades for heavy duty cutting. Shop shears are one of the hardest and smoothest cutting shears available, with approx. 60 HRC, hardened throughout.	SS-7205-8	Straight shears	20cm / 8"	150 g
	SS-7230-9	Straight shears	23cm / 9"	170 g
	SS-7250-10	Straight shears	25cm / 10"	210 g
	SS-7280-11	Straight shears	28cm / 11"	248 g
	SS-7300-12	Straight shears	31cm / 12"	306 g



Resin Line Clamp

Infusion Essential

Description	Material Type	Plier Length	Flange Width
Resin line clamps are professional quality locking pliers for use in resin infusion applications. Hoses can be clamped separate from vacuum to prevent the flow of resin. These fully adjustable pliers have a nickel-plated finish and a non-slip grip, making for an ergonomic design.	Nickel plated style	21cm	8cm



Toolfusion® 1

Tooling Essential

Material Type	Initial Cure Temperature	Pot Life	Service Temperature	Package Size	Weight
Epoxy	22°C for 24 hours	75 minutes (100g at 22°C)	191°C	5 Gallons	Part A - 40 lbs. (18 kg) Part B - 8 lbs. (3,6 kg)
Description				Drum	Part A - 500 lbs. (225 kg) Part B - 105 lbs. (47,8 kg)

Toolfusion® 1A/ 1B is a two part, low viscosity epoxy infusion resin designed to produce prepreg quality, high temperature moulds at a fraction of the cost. Standard infusion vacuum bagging is all that is required to produce autoclave quality laminates. Toolfusion® 1A/ 1B requires room temperature master models and patterns further reducing the cost of composite tooling.



Toolfusion® 3

Material Type	Initial Cure Temperature	Pot Life	Service Temperature	Package Size	Weight
Epoxy	49°C for 12 hours	300 minutes (100g at 22°C)	218°C	5 Gallons	Part A - 45 lbs. (20,4 kg) Part B - 40 lbs. (18,1 kg)
Description					

Toolfusion® 3A/ 3B is a two part low viscosity epoxy infusion resin formulated to produce pre-preg quality, composite moulds. Toolfusion® 3 has a low initial cure temperature of 49°C and can be post cured to achieve a high glass transition temperature of 218°C. Void contents of less than 1% are achievable. Toolfusion® 3A/ 3B will work in various RTM and VARTM processes including single and double bag arrangements to produce autoclave quality laminates.



High temperature infusion



High temperature infusion setup

Wrightlon® 5200 Perforated release film

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	350%	48 MPa			
Description			WL5200BP3	0,001" x 48" x 600ft	25µm x 1,22m x 183m
Wrightlon® 5200 release film has an excellent elongation which ensures that it will conform to complex curvatures. It is capable of cure temperatures up to 260°C. This film will release from most resin systems and will provide a glossy finish when used directly on the laminate. Colour options: available in red, blue and yellow.			WL5200BP6	0,001" x 48" x 600ft	25µm x 1,22m x 183m
			WL5200BP3	0,0008" x 48" x 600ft	20µm x 1,22 m x 183m
			WL5200BP6	0,0008" x 48" x 600ft	20µm x 1,22 m x 183m



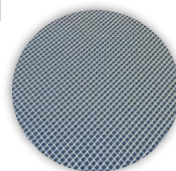
Airhold 1 CBS Double sided tape

Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	Acrylic	Clear		
Description				1" x 36 yards	25mm x 33m
Airhold 1 CBS is an all-purpose, high temperature double-backed holding tape. Airhold 1 CBS is designed to hold release plies, release films and breathers in place during lay up and vacuum bagging machining operations. It leaves very little residue which can be removed with common shop solvents.				2" x 36 yards	50mm x 33m



Resinflow 90HT Resin flow mesh

Maximum Use Temperature	Mesh Weight	Material	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
177°C	160 g/m ²	Extruded Nylon	Clear		
Description				0,035" x 40" x 500ft	0,9mm x 1m x 152m
Resinflow 90 HT is a resin distribution medium for elevated temperatures. Resinflow 90 HT is designed for resin infusion with cures at 177°C. The fused overlay construction provides optimum flow characteristics.					



Knitflow 105HT Resin flow mesh

Maximum Use Temperature	Mesh Weight	Material	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
200°C	105 g/m ²	Knitted Nylon	Clear		
Description				0,028" x 98" x 45,9ft	0,7m x 2,5m x 40m
Knitflow 105 HT is designed to assist resin flow through the part during the vacuum assisted resin infusion process when elevated temperatures are used. Our resin flow medium works well with polyester, vinylester and epoxy resins. This product is a knitted flow medium.					



High temperature infusion materials

Nylon Spiral

Maximum Use Temperature	Material	Colour	Sizes (Inches)	Sizes (Metric)
180°C	Nylon	White		
Description			1/2" O.D. x 3/8" I.D. x 82ft	12,7mm O.D. x 9,5mm I.D. x 25m

Spiral tubing for resin feed lines and vacuum manifolds around part edge. Can be easily cut and connected with range of coupling, elbow and T fittings.



Nylon Tubing

Maximum Use Temperature	Material	Colour	Sizes (Inches)	Sizes (Metric)
180°C	Nylon	White		
Description			1/2" O.D. x 3/8" I.D. x 82ft	12,7mm O.D. x 9,5mm I.D. x 25m

Tubing for resin feed and vacuum connections. Can be easily cut and connected with range of coupling, elbow and T fittings.



Siltube

Maximum Use Temperature	Material	Colour	Sizes (Metric)	
230°C	Silicone	Clear		
Description			14 mm O.D. x 8 mm I.D. x 25 m – fits RIA1/2"	
			18 mm O.D. x 10 mm I.D. x 25 m – fits RIA5/8"	
			21 mm O.D. x 12 mm I.D. x 25 m – fits RIA3/4"	

Tubing for resin feed and vacuum connections. Can be easily cut and connected with range of coupling, elbow and T fittings.



RIC HT Connector with spiral base

Maximum Use Temperature	Material	Colour	Tube Connection	Spiral Connection	Product Reference
180°C	Nylon	Black	1/2"	1/2"	RIC-HT 12
Description			5/8"	5/8"	RIC-HT 58
			3/4"	3/4"	RIC-HT 34

The Airtech high temperature resin infusion connector (RIC HT) provides inexpensive and efficient through bag connection for vacuum manifold and resin feed lines for high temperature resin infusion applications.



VAC-RIC HT Connector with flat base

Maximum Use Temperature	Material	Colour	Tube Connection	Spiral Connection	Product Reference
260°C	PTFE	White			
Description			1/2"	1/2"	VAC-RIC HT 12

The high temperature resin infusion connector with a flat base VAC-RIC HT provides inexpensive and efficient through bag connection for vacuum manifold and resin feed lines for high temperature resin infusion applications. It is suitable for use with the Dahlpac MC79 vacuum breather pad.



RIA Hose to connector adaptor

Maximum Use Temperature	Material	Colour	Tube Connection	Diameter	Fits Connector Size	Product Reference
260°C	Stainless steel	Steel				
Description			9,8mm		1/2"	RIA 1/2"
			13,2mm		5/8"	RIA 5/8"
			15,2mm		3/4"	RIA 3/4"

RIA is a practical tool which can ensure the connection between the resin inlet tube or vacuum line and all Airtech RIC (Resin Infusion Connectors). The sharp angled end of this new adapter will easily perforate the vacuum bag placed on the top of the RIC without the need of scissors.



High temperature silicone tubing,
Hose Clamp Mini, RIA and VAC-RIC HT

Airtech Europe customer service



Global manufacturing & Local Inventories
Delivering Short Lead Times. AAMG: >98% OTD



Customer Service
Team Contacts



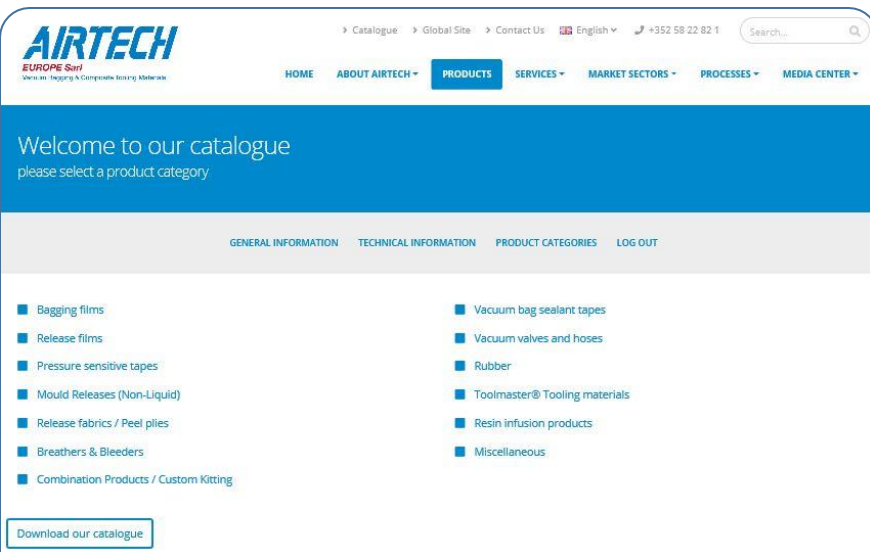
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Continuous Improvement



Technical Support, Training Workshop & On-site Training Support



Quality System Accreditation



Sample Service



Recyclable Packaging

Online Catalogue with Technical Data Sheet & Safety Data Sheet to Download, available in 6 languages.

Dedicated to the needs of our customers

Airtech has been a supplier and supporter of all forms of resin infusion processing from the early days of its development. We continue to develop new materials specifically for resin infusion using expertise developed in all composite industries such as Aerospace, Wind Energy, Marine, etc.

Doña Francisca

Schooner

Image taken during the manufacture of the of the 52,5 meters Doña Francisca, one of the largest carbon sailing yachts ever built.



Company:	Buquebus
Size:	52,5 meters
Launched:	January 2014
Location:	Uruguay

172ft (52,5m) carbon fibre boat infused using Airtech materials by Loic Venec



Need more Information, a Quote or a Sample ?

Please contact our customer service team

Phone: +352 58 22 82 1

Email: sales@airtech.lu



About Airtech Europe


Differdange, Luxembourg

www.airtech.lu

www.airtech3D.com

- Airtech Europe is a division of Airtech Advanced Materials Group, the largest manufacturer of vacuum bagging and composite tooling materials for prepreg / autoclave, resin infusion, and wet lay-up processes up to 426°C. Our product line consists of: vacuum bagging films, release films, pressure sensitive tapes, mould releases (non-liquid), peel plies, breathers & bleeders, sealant tapes, vacuum bag connectors & hoses, rubber, pressure pads, cutting tools, vacuum leak detectors, shrink tape, PTFE coated fibreglass, tooling prepregs and resins, and carbon and glass reinforcements.
- With nearly 50 years of extrusion experience, we've taken the next step into additive manufacturing. [Print-Tech®](#) is our new large scale additive manufacturing or 3D printing tooling service for composites. Large scale tooling in the form of trim fixtures, holding fixtures, and layup moulds can be designed, tooled, and built faster without compromise quality. Also, we manufacture a full line of [Dahltram®](#) tooling and [Dahlpram®](#) purging resins.
- Airtech Advanced Materials Group is family owned. We have six locations strategically placed worldwide: Huntington Beach, California, USA; Chino, California, USA; Springfield, Tennessee, USA; Differdange, Luxembourg; and Tianjin, China. All of our facilities offer technical assistance and are ready to meet your composite production challenges.
- Airtech Europe is EN 9100:2018, ISO 9001:2015 and ISO 14001:2015 certified.

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