

# AIRTECH

EUROPE Sarl



## Vacuum Bagging for Prepreg Autoclave Moulding



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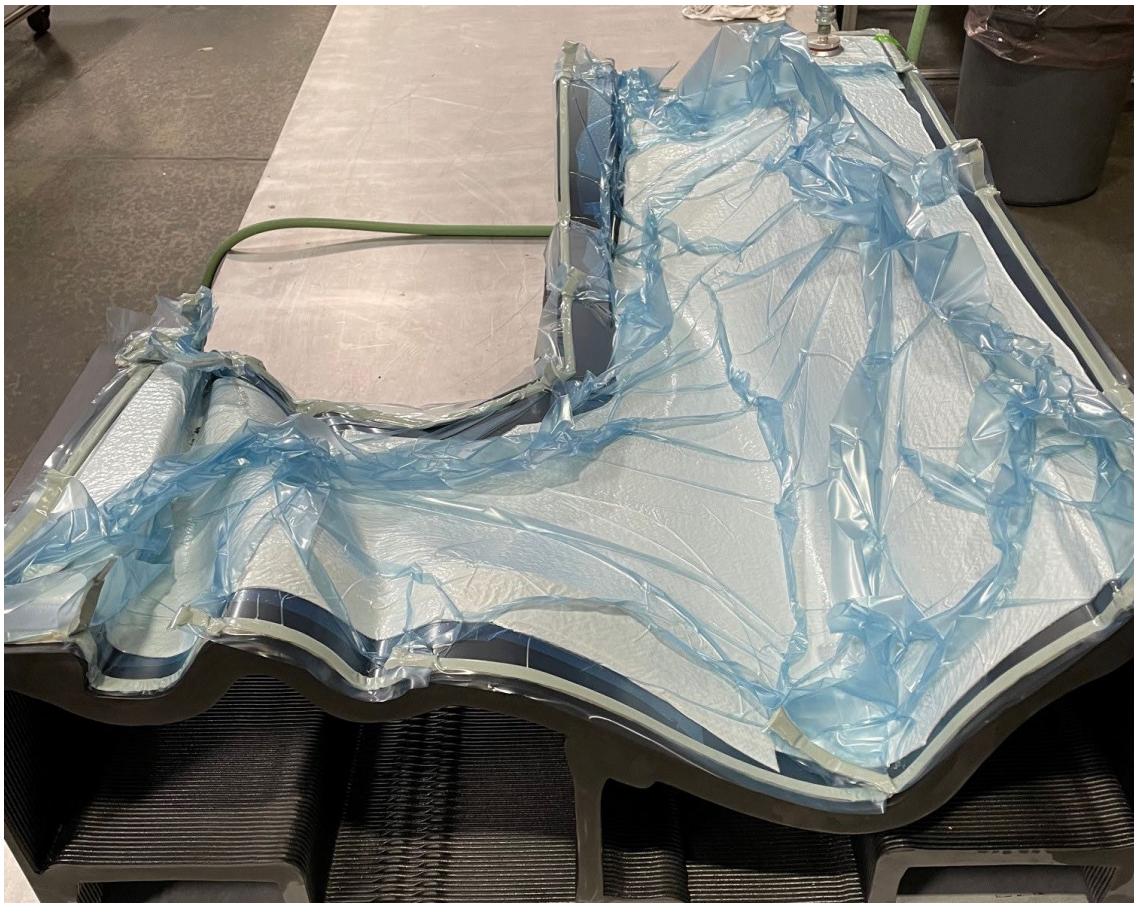
2022 Edition 2

**AIRTECH**  
ADVANCED MATERIALS GROUP

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## Welcome



- Vacuum Bag Films
- Release Films
- Release Fabrics
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- Combo-Tech
- PS Tapes
- Mould Releases
- Sealant Tapes
- Vac Valves & Hoses
- Vac Gauges & Tools
- Rubber & Accessories
- 3D Printed Tooling
- 3D Print Resins



# Spotlight Products for General Composites



## Wrightlon® 600V Vacuum bag film

Wrightlon® 600V vacuum bagging film is designed for low cost, commercial applications yet still performs with high pressure autoclave cure cycles.

It has good elongation and stays soft in low humidity conditions which makes bagging easier and reduces cycle times.



## Wrightlon® 5200 Release film

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.

## Airflow 65R Now available with integrated elbows

Airflow 65R can be used as an autoclave or oven hose. The outer ply is silicone rubber that encases a flexible steel tube that prevents collapse and hose separation.



## Wrightlease Extruded fluoropolymer tape

Wrightlease is a non-stick tape for applications where resin release is required.

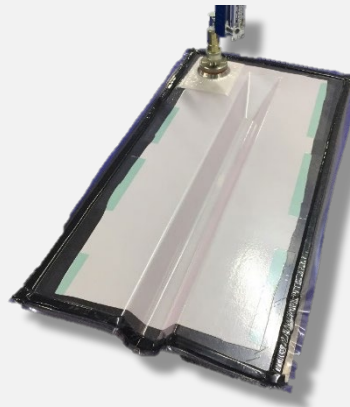
The orange colour is highly visible on most substrates in addition to offering high elongation and tensile strength. Also available in cut strips version.



## Airtac 2 LH+ Spray adhesive

Airtac 2 LH+ is a high tack spray adhesive designed for temporary bonding. It can be used to hold dry materials on contours and vertical surfaces.

Airtac 2 LH+ has a fine mist spray pattern.



## Stretch Flow 2000 Breather fabric

Stretch Flow 2000 is a knitted, nylon, stretchable breather used in a variety of applications.

The high-stretch characteristics of Stretch Flow 2000 enable it to conform to many complex contour surfaces.

## AS1 Vacuum bag 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.



## Combo-Tech Combination materials

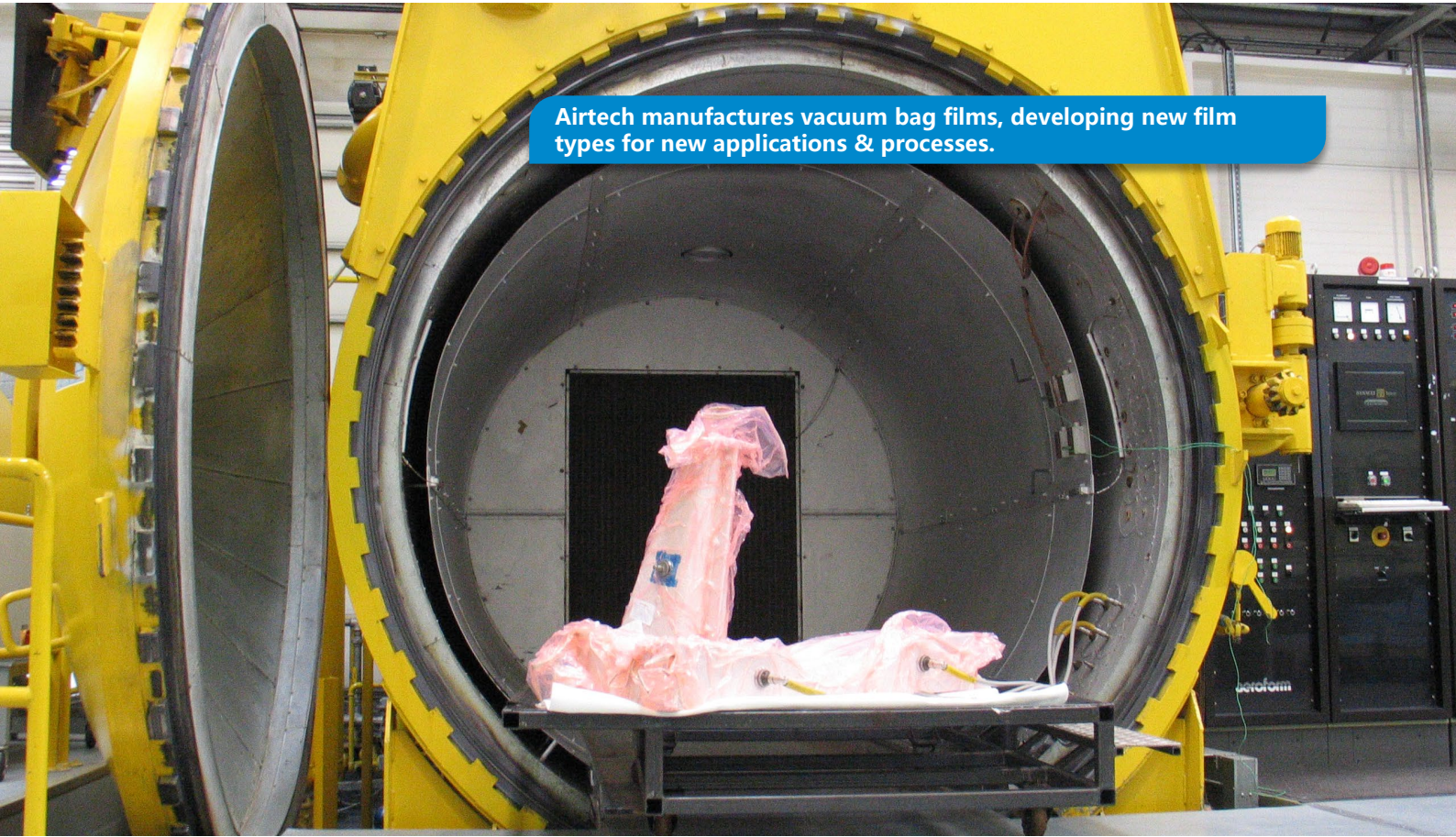
Combo-Tech technology from Airtech combines materials for great labour savings during layup process.

Combination of products are applied in one operation as opposed to applying one layer at a time.





## Vacuum bagging films



Airtech manufactures vacuum bag films, developing new film types for new applications & processes.



Airtech manufactures vacuum bag films, including lower cost films for autoclave production.



# Airtech manufactured vacuum bag films made for composites

## Wrightlon® 250Y

**New Low Cost Film**

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
150°C	400%	41,4 MPa	0,002" x 24" LFT x 1000ft 0,002" x 36" LFT x 1000ft 0,002" x 48" LFT x 1000ft 0,002" x 60" LFT x 1000ft 0,002" x 80" LFT x 750ft 0,002" x 90" LFT x 750ft 0,002" x 120" LFT x 750ft	50µm x 610mm LFT x 304m 50µm x 914mm LFT x 304m 50µm x 1,22m LFT x 304m 50µm x 1,52m LFT x 304m 50µm x 2,03m LFT x 228m 50µm x 2,29m LFT x 228m 50µm x 3,05m LFT x 228m
Description				

Wrightlon® 250Y vacuum bagging film has high elongation, flexibility and tensile strength. The enhanced physical values allow for added security even in harsh environments. Wrightlon® 250Y is well suited for automotive, marine and other commercial vacuum bagging applications. It is ideal for both autoclave and oven cures.



## L-550G

**Economical Film**

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
171°C	400%	52 MPa	0,002" x 18" LFT x 1000ft 0,002" x 24" LFT x 1000ft 0,002" x 36" LFT x 1000ft 0,002" x 48" LFT x 1000ft 0,002" x 60" LFT x 1000ft 0,002" x 80" LFT x 750ft 0,002" x 90" LFT x 750ft 0,002" x 118,5" LFT x 420ft	50µm x 457mm LFT x 304m 50µm x 610mm LFT x 304m 50µm x 914mm LFT x 304m 50µm x 1,22m LFT x 304m 50µm x 1,52m LFT x 304m 50µm x 2,03m LFT x 228m 50µm x 2,29m LFT x 228m 50µm x 3,00m LFT x 128m
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.



## Wrightlon® 600V

**Strong Film**

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	400%	65 MPa	0,002" x 12" LFT x 1000ft 0,002" x 18" LFT x 1000ft 0,002" x 24" LFT x 1000ft 0,002" x 36" LFT x 1000ft 0,002" x 48" LFT x 1000ft 0,002" x 60" LFT x 1000ft 0,002" x 80" LFT x 750ft 0,002" x 90" LFT x 750ft 0,002" x 118" LFT x 500ft	50µm x 304mm LFT x 304m 50µm x 457mm LFT x 304m 50µm x 610mm LFT x 304m 50µm x 914mm LFT x 304m 50µm x 1,22m LFT x 304m 50µm x 1,52m LFT x 304m 50µm x 2,03m LFT x 228m 50µm x 2,29m LFT x 228m 50µm x 2,99m LFT x 152m
Description				

Wrightlon® 600V vacuum bagging film is designed for low cost, commercial applications yet still performs with high pressure autoclave cure cycles. It has good elongation and stays soft in low humidity conditions.



## Stretchlon® 850

**#1 Choice for Softness**

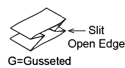
Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	450%	69 MPa	0,002" x 2" LFT x 500ft 0,002" x 3" LFT x 500ft 0,002" x 4" LFT x 500ft 0,002" x 5" LFT x 500ft 0,002" x 6" LFT x 1000ft 0,002" x 8" LFT x 1000ft 0,002" x 9" LFT x 1000ft 0,002" x 10" LFT x 1000ft 0,002" x 12" LFT x 1000ft 0,002" x 16" LFT x 1000ft 0,002" x 18" LFT x 1000ft 0,002" x 24" LFT x 1000ft 0,002" x 27" LFT x 1000ft 0,002" x 36" LFT x 1000ft 0,002" x 40" LFT x 1000ft 0,002" x 48" LFT x 1000ft 0,002" x 54" LFT x 1000ft 0,002" x 60" LFT x 1000ft 0,002" x 80" LFT x 750ft 0,002" x 90" LFT x 750ft 0,002" x 118" LFT x 300ft	50µm x 51mm LFT x 152m 50µm x 75mm LFT x 152m 50µm x 101mm LFT x 152m 50µm x 127mm LFT x 152m 50µm x 152mm LFT x 304m 50µm x 203mm LFT x 304m 50µm x 228mm LFT x 304m 50µm x 254mm LFT x 304m 50µm x 304mm LFT x 304m 50µm x 406mm LFT x 304m 50µm x 457mm LFT x 304m 50µm x 610mm LFT x 304m 50µm x 686mm LFT x 304m 50µm x 914mm LFT x 304m 50µm x 1,02m LFT x 304m 50µm x 1,22m LFT x 304m 50µm x 1,37m LFT x 304m 50µm x 1,52m LFT x 304m 50µm x 2,03m LFT x 228m 50µm x 2,29m LFT x 228m 50µm x 2,99m LFT x 91m
Description				

Stretchlon® 850 is a high elongation film in tube form with a good softness which will conform to complex contours. This film is designed to remain more flexible than standard nylon films in low humidity conditions. Stretchlon® 850 is recommended for epoxy and BMI resins.



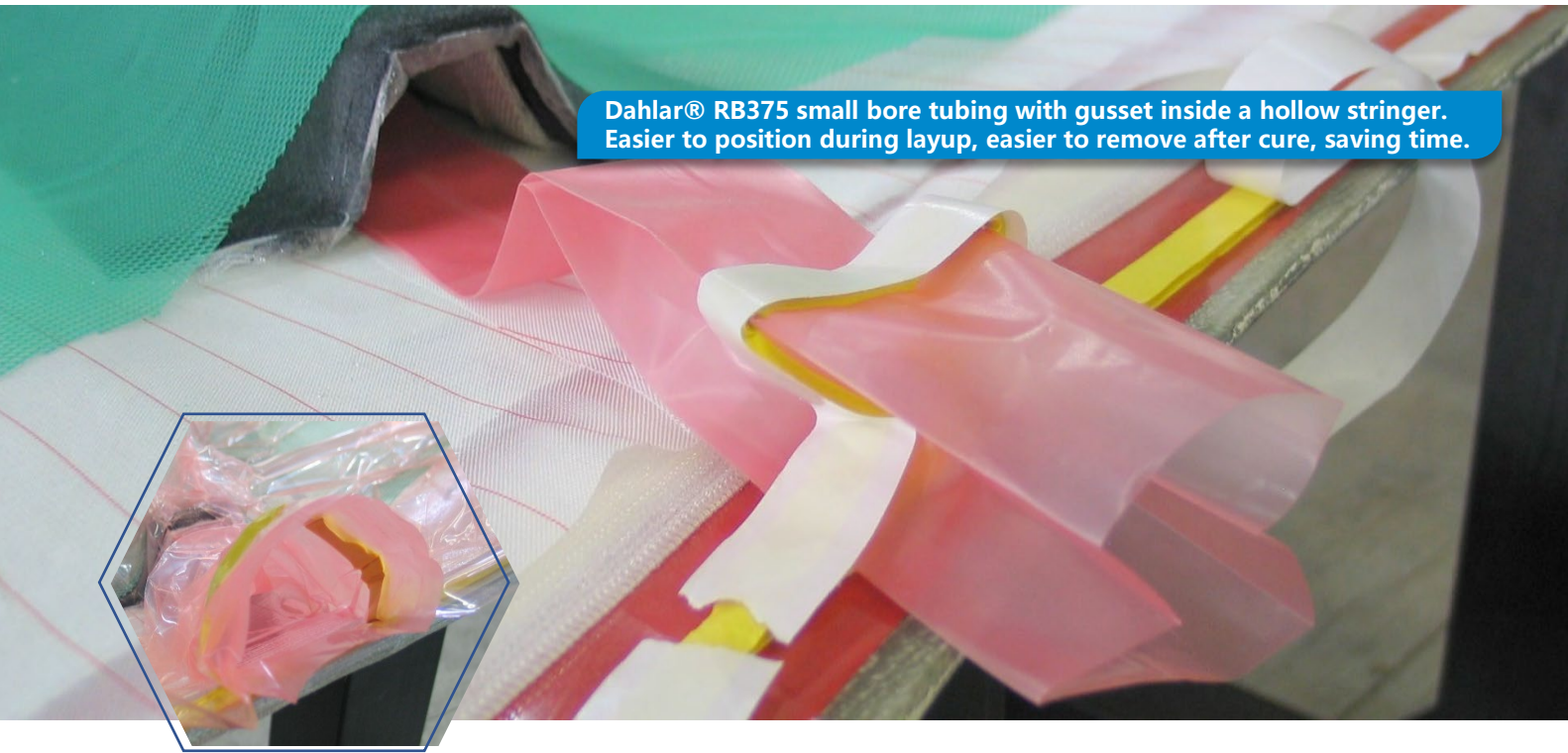
**Notes:**

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





## Vacuum bagging films



Dahlar® RB375 small bore tubing with gusset inside a hollow stringer. Easier to position during layup, easier to remove after cure, saving time.



Airdraw 2 embossed vacuum bagging film with a "cracked ice" pattern designed for faster compaction and reduced cycle times.



## Small bore and embossed vacuum bag films

### Dahlar® Release Bag 375

#### Self-Releasing Vac Film

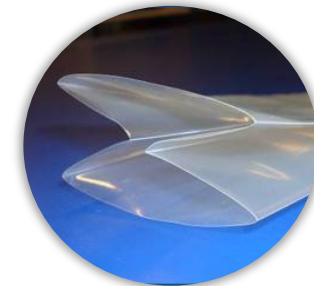
Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
155°C	475%	40 MPa	0,0027" x 2" LFT x 500ft	70µm x 51mm LFT x 152m
Description			0,0027" x 2.5" LFT x 500ft	70µm x 63mm LFT x 152m
Dahlar® Release Bag 375 is a self releasing multi-layer bagging film for direct contact with prepreg for fabrication of hollow parts such as bicycle components, fishing rods, masts, etc. It exhibits superior strength, temperature resistance and vacuum integrity of Airtech's multi-layer film technology. Dahlar® Release Bag 375 exhibits excellent release off epoxy and polyester resins.			0,0027" x 3" LFT x 500ft	70µm x 75mm LFT x 152m
			0,0027" x 4" LFT x 1000ft	70µm x 101mm LFT x 304m
			0,0027" x 5" LFT x 500ft	70µm x 127mm LFT x 152m
			0,0027" x 6" LFT x 1000ft	70µm x 152mm LFT x 304m
			0,0027" x 8" LFT x 1000ft	70µm x 203mm LFT x 304m
			0,0027" x 9" LFT x 1000ft	70µm x 228mm LFT x 304m
			0,0027" x 10" LFT x 1000ft	70µm x 254mm LFT x 304m
			0,0027" x 12" LFT x 1000ft	70µm x 304mm LFT x 304m



### Dahlar® Release Bag 460

#### Self-Releasing Vac Film

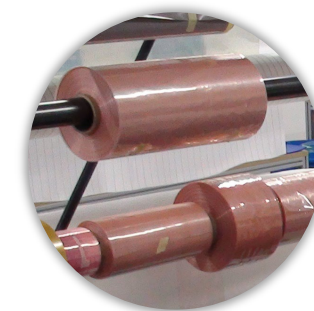
Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
190°C	425%	60 MPa	0,0027" x 2" LFT x 1000ft	70µm x 51mm LFT x 304m
Description			0,0027" x 2.5" LFT x 500ft	70µm x 63mm LFT x 152m
Dahlar® Release Bag 460 is a self releasing multi-layer bagging film for direct contact with prepreg for fabrication of hollow parts. It exhibits superior strength, temperature resistance and vacuum integrity of Airtech's multi-layer film technology. Dahlar® Release Bag 460 exhibits excellent release off epoxy resins.			0,0027" x 3" LFT x 500ft	70µm x 75mm LFT x 152m
This product is also available in gusseted tubing (GT). Thanks to the gusset folding, Dahlar® Release Bag 460 is easier to position accurately in hollow parts. Upon application of pressure the bag will easily expand to fit to the shape of the part which is very useful in applications where there are variations in the part diameter. This development ensures even application of internal pressure in cases of small diameter parts, where the insertion of a standard lay flat tube bagging film can be problematic.			0,0027" x 4" LFT x 1000ft	70µm x 101mm LFT x 304m
			0,0027" x 4" GT x 500ft	70µm x 101mm GT x 152m
			0,0027" x 5" LFT x 1000ft	70µm x 127mm LFT x 304m
			0,0027" x 5" GT x 500ft	70µm x 127mm GT x 152m
			0,0027" x 6" LFT x 1000ft	70µm x 152mm LFT x 304m
			0,0027" x 6" GT x 500ft	70µm x 152mm GT x 152m
			0,0027" x 8" LFT x 1000ft	70µm x 203mm LFT x 304m
			0,0027" x 8" GT x 500ft	70µm x 203mm GT x 152m



### Ipplon® KM1300

#### Vacuum Bag with Moisture-Lok

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
212°C	450%	48 MPa	0,002" x 2" LFT x 500ft	50µm x 51mm LFT x 152m
Description			0,002" x 3" LFT x 500ft	50µm x 75mm LFT x 152m
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 4" LFT x 500ft	50µm x 101mm LFT x 152m
			0,002" x 5" LFT x 500ft	50µm x 127mm LFT x 152m
			0,002" x 6" LFT x 500ft	50µm x 152mm LFT x 152m
			0,002" x 8" LFT x 1000ft	50µm x 203mm LFT x 304m
			0,002" x 10" LFT x 1000ft	50µm x 254mm LFT x 304m
			0,002" x 12" LFT x 1000ft	50µm x 304mm LFT x 304m
			0,002" x 18" LFT x 1000ft	50µm x 457mm LFT x 304m



### Airdraw 2

#### Embossed Bagging Film

Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	450%	55 MPa	0,003" x 60" SHT x 650ft	75µm x 1,52m SHT x 198m
Description			0,003" x 120" SHT x 650ft	75µm x 3,05m SHT x 198m
Airdraw 2 vacuum bagging film is embossed with a "cracked ice" pattern which allows for rapid air removal when placed under vacuum. The film has been formulated to provide increased stiffness to assist in maintaining a breathable pattern. Airdraw 2 is not affected by environmental conditions and will not soften in high humidity, allowing superior breathability. It is designed primarily for ply compaction with the added benefits of not requiring a breather. It is embossed from one side of the film, under close examination; the film has a flat side and a raised side. The outer surface of the roll is the raised side. For best results, place the raised side against the part surface on top of a perforated release film.			0,003" x 157" SHT x 650ft	75µm x 3,99m SHT x 198m

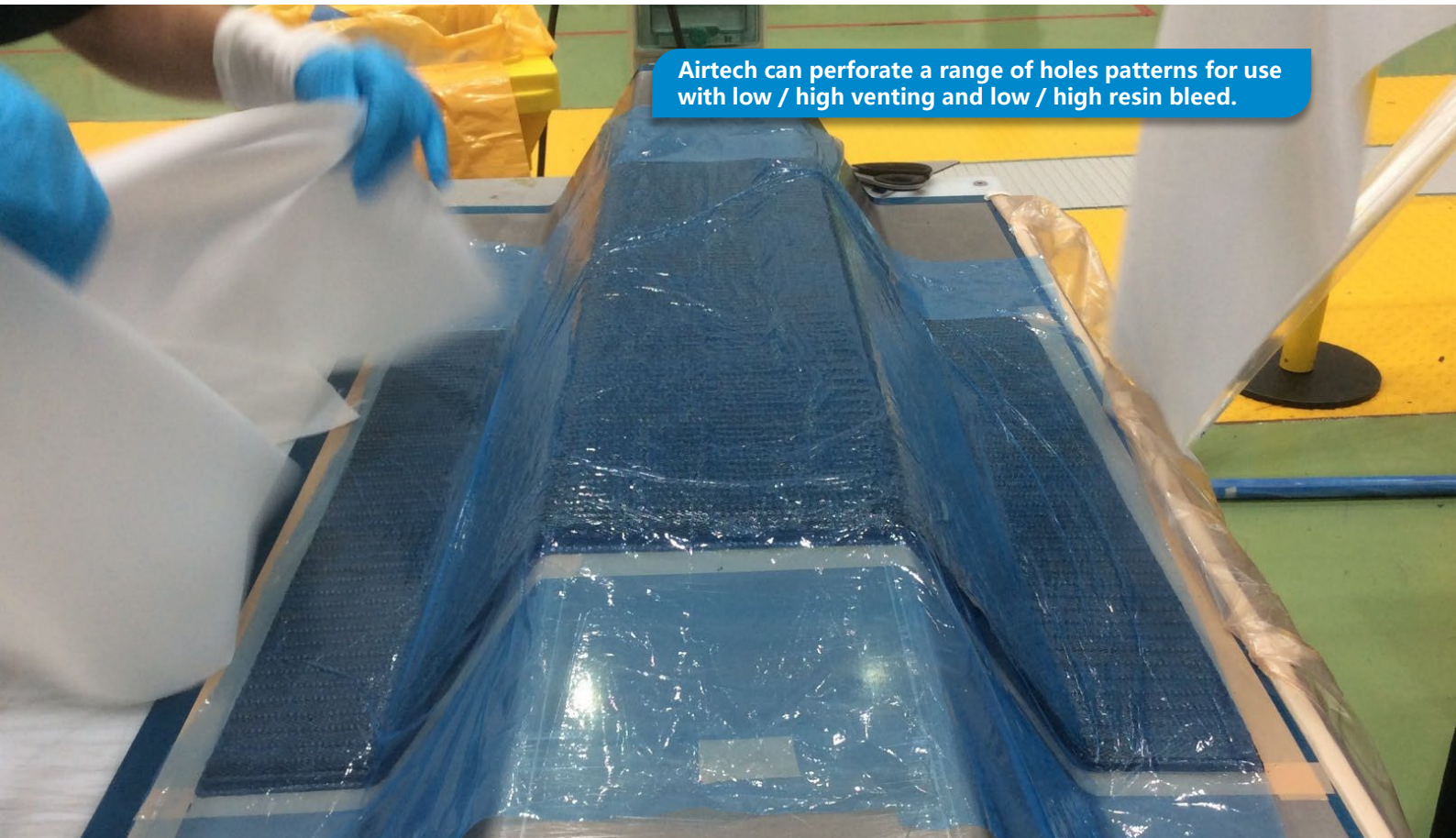




## Release films



Airtech manufactures release films with fluoropolymers for high temperatures and polyolefins for lower temperature applications.



Airtech can perforate a range of holes patterns for use with low / high venting and low / high resin bleed.



## Release films made for prepreg compaction and curing

### Wrightlon® 3700

#### Low Cost Debulk Option

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
121°C	500%	30 MPa			
Description			WL3700	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.			WL3700 P3	0,001" x 60" x 2000ft	25µm x 1,52m x 609m
			WL3700 P6	0,001" x 60" x 2000ft	25µm x 1,52m x 609m

### Wrightlon® 3900

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
157°C	500%	41 MPa			
Description			WL 3900R	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.			WL 3900R P3	0,0012" x 60" x 328ft	30µm x 1,52m x 100m
			WL 3900R P6	0,0012" x 60" x 328ft	30µm x 1,52m x 100m

### Dahlar® Release Bag 125

#### Low Cost Cure Option

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
140°C	400%	65 MPa			
Description			RBG125	0,001" x 60" x 1000ft	25µm x 1,52m x 305m
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. This formulation has improved tear resistance and elongation. Dahlar® Release Bag 125 is the ideal release film for polyester or vinyl ester resins as well as epoxies and phenolics.			RBG125 P3	0,001" x 60" x 1000ft	25µm x 1,52m x 305m
			RBG125 P6	0,001" x 60" x 1000ft	25µm x 1,52m x 305m

### Wrightlon® 5200

#### Best All-Rounder

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	350%	48 MPa			
Description			WL5200B	0,0006" x 48" x 1200ft	15µm x 1,22m x 366m
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.			WL5200B P3	0,0006" x 48" x 1200ft	15µm x 1,22m x 366m
			WL5200B P6	0,0006" x 48" x 1200ft	15µm x 1,22m x 366m
			WL5200B	0,0008" x 48"x 600ft	20µm x 1,22m x 183m
			WL5200B P3	0,0008" x 48"x 600ft	20µm x 1,22m x 183m
			WL5200B P6	0,0008" x 48"x 600ft	20µm x 1,22m x 183m

### A4000

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	300%	21 MPa			
Description			A4000R	0,0005" x 60" x 1200ft	12µm x 1,52m x 366m
A4000 release film is a high temperature and high elongation release film which will conform easily to the most complex curvatures. The film is capable of temperatures up to 260°C. This film will release from most resin systems and will provide a glossy finish when removed from the laminate.			A4000R	0,0008" x 60" x 600ft	20µm x 1,52m x 183m
			A4000R P3	0,0008" x 60" x 600ft	20µm x 1,52m x 183m
			A4000R P6	0,0008" x 60" x 600ft	20µm x 1,52m x 183m

### MR1 RED

#### High Gloss Parts

Maximum Use Temperature	Elongation	Tensile Strength	Perforation Style	Roll Sizes (Inches)	Roll Sizes (Metric)
315°C	400%	31 MPa			
Description			MR1 RED	0,001" x 48" x 500ft	25µm x 1,22m x 152m
MR release films can take temperature up to 315°C. These films have a high elongation and a good conformability. This film will provide a smooth surface after the cure.			MR1 RED P3	0,001" x 48" x 500ft	25µm x 1,22m x 152m
			MR1 RED P6	0,001" x 48" x 500ft	25µm x 1,22m x 152m

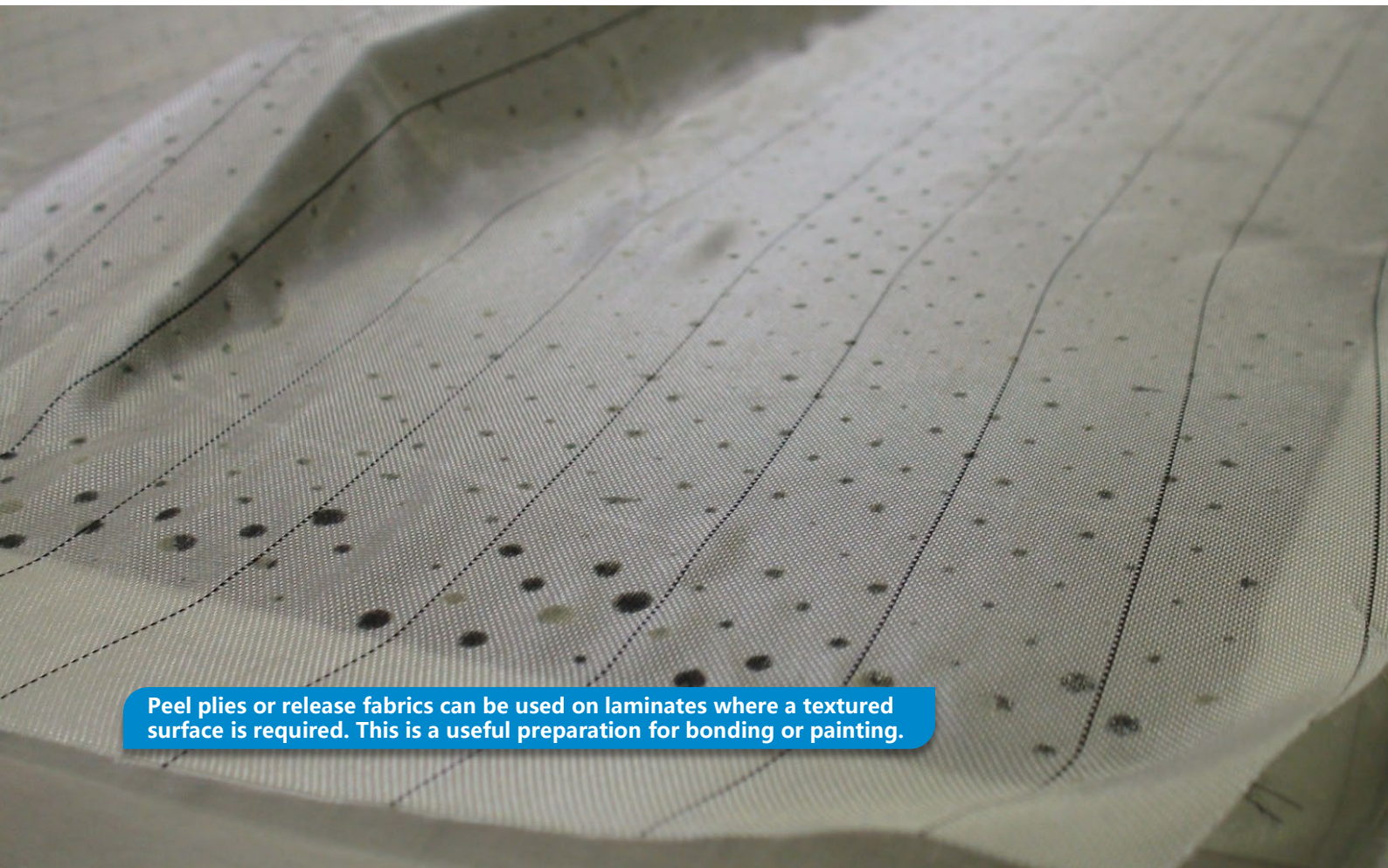
- Other products are available, please visit [www.airtech.lu](http://www.airtech.lu) for full product selection.
- Other sizes and perforations are available on special order, please contact your Airtech customer service representative for complete details.
- Material can be slit in special widths upon request (1 standard roll as minimum order quantity).



# Release fabrics & Peel ply



Airtech offers a wide range of peel plies and release fabrics for the full range of process requirements.



Peel plies or release fabrics can be used on laminates where a textured surface is required. This is a useful preparation for bonding or painting.



# Uncoated & coated release fabrics for paint & bonding preparation

## Econostitch® G

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
190°C	Polyester	85 g/m <sup>2</sup>	White / Black Tracer		
Description				2" x 218 yards	50mm x 200m
<p>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. Our Econo peel plies are designed to work in resin infusion or hand lay-up processes. Econostitch® G assists or eliminates the need for sanding or abrading on your composite laminate.</p> <p><b>Note:</b> Slit width sizes are available but may be subject to minimum order quantity and lead time, please contact for details.</p>				4" x 218 yards	100mm x 200m
				8" x 218 yards	200mm x 200m
				20" x 218 yards	500mm x 200m
				35" x 218 yards	900mm x 200m
				71" x 218 yards	1,80m x 200m



## Econostitch®

### Workshop Essential

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
190°C	Nylon	88 g/m <sup>2</sup>	White / Red Tracer		
Description				2" x 218 yards	50mm x 200m
<p>Econostitch® is a heat set and scoured 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. Our Econo peel plies are designed to work in resin infusion or hand lay-up processes. Econostitch® assists or eliminates the need for sanding or abrading on your composite laminate.</p> <p><b>Note:</b> Slit width sizes are available but may be subject to minimum order quantity and lead time, please contact for details.</p>				4" x 100 yards	100mm x 91m
				8" x 100 yards	200mm x 91m
				20" x 100 yards	500mm x 91m
				30" x 100 yards	750mm x 91m
				60" x 100 yards	1,52m x 91m
				60" x 300 yards	1,52m x 274m



## Bleeder Lease® B

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
232°C	Nylon	62 g/m <sup>2</sup>	Green		
Description				60" x 109 yards	1,52m x 100m

Bleeder Lease® B peel ply is a high temperature fabric coated with a silicone release agent. It provides superior release to plain peel plies because the coating prevents the fabric from bonding to the laminate while producing a textured surface. It will provide easy release from most prepregs and resin systems. All coated peel plies have the potential to transfer. Bleeder Lease® B is a tightly woven, coated nylon peel ply that releases well from most resin systems. It is an excellent choice for many resin infusion projects.



## Release Ease® 234 TFP

### Porous PTFE Glass

Maximum Use Temperature	Fibre Type	Thickness	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
288°C	PTFE coated fibreglass	60µm	Brown		
Description				39" x 109 yards	1m x 100m

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.

60" x 100 yards 1,52m x 91m



## Release Ease® 234 TFNP

### Non-Porous PTFE Glass

Maximum Use Temperature	Fibre Type	Weight	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
288°C	PTFE coated fibreglass	75µm	Brown		
Description				39" x 109 yards	1m x 100m

Release Ease® 234 TFNP is a non-porous glass fabric. 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.





# Breathers & Bleeders

## Airweave® N3 Light weight breather

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	125 g/m <sup>2</sup>		

**Description**  
Airweave® N3 is a polyester non-woven breather and absorption fabric designed primarily for use when moulding with vacuum pressure only. It is recommended for use when moulding components with small surface area and without complex curvatures which could result in stretching of the breather fabric, causing a reduction in airflow capability.

60" x 109 yards	1,52m x 100m
30" x 109 yards	760mm x 100m



## Airweave® N4 Light weight breather

**Workshop Essential**

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	140 g/m <sup>2</sup>		

**Description**  
Airweave® N4 is a good breather for low pressure cures. It conforms well and can be used as a bleeder at any pressure.

60" x 55 yards	1,52m x 50m
60" x 109 yards	1,52m x 100m
30" x 109 yards	760mm x 100m



## Airweave® N7 Medium weight breather

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	237 g/m <sup>2</sup>		

**Description**  
Airweave® N7 is a medium weight breather which provides good conformity.

60" x 55 yards	1,52m x 50m
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Polyester breathers are good for bleeding excess resin, oven curing and standard autoclave cures.



Non-woven fabrics to apply vacuum, pressure and absorb excess resin



Airtech manufactures a breather range of different weights and fibre types for low cost and high performance applications.

## Airweave® N10 Heavy weight breather

**Workshop Essential**

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	339 g/m <sup>2</sup>		
Description				

Airweave® N10 is used for higher pressure cures. This breather still offers good elongation and cushions any sharp radius for vacuum bag protection. Non-woven construction provides good conformity.

4" x 55 yards	100mm x 50m
12" x 55 yards	300mm x 50m
30" x 55 yards	760mm x 50m
60" x 55 yards	1,52m x 50m



Airweave® supplied in slit width rolls



Breathers supplied pre-cut for volume manufacturing



# Breathers & Bleeders

## Ultraweave® 406 Light weight breather

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
232°C	Nylon 6,6	135 g/m <sup>2</sup>	60" x 50 yards	1,52m x 46m
Description				

All Ultraweave® products have a higher temperature softening point and will not compress like polyester allowing for increased airflow. Ultraweave® 406 is the lightest, most conformable and least expensive nylon breather in the Ultraweave® family.



## Ultraweave® 606 Medium weight breather

### Soft High Pressure Breather

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
232°C	Nylon 6,6	204 g/m <sup>2</sup>	4" x 55 yards 60" x 55 yards	100mm x 50m 1,52m x 50m
Description				

All Ultraweave® products have a higher temperature softening point and will not compress like polyester allowing for increased airflow. Ultraweave® 606 is a medium weight yet conformable breather which replaces most 340 g/m<sup>2</sup> polyester breathers, reducing back pressure and porosity problems.



## Ultraweave® 1032 Heavy weight breather

### #1 Long Cure Breather

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
232°C	Nylon 6,6	339 g/m <sup>2</sup>	30" x 55 yards 60" x 55 yards	760mm x 50m 1,52m x 50m
Description				

Ultraweave® 1032 is a heavy duty yet conformable breather which will work with most any autoclave cure and prevent trap off under the vacuum bag. This product eliminates the need for multiple layers of polyester breather.

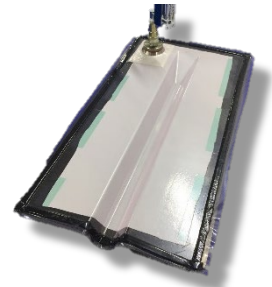


## Stretch Flow 2000

### Highest Elongation

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
232°C	Nylon	91,5 g/m <sup>2</sup>	59" x 100 yards	1,49m x 91 m
Description				

Stretch Flow 2000 is a knitted, nylon, stretchable breather used in a variety of applications. The high-stretch characteristics of Stretch Flow 2000 enable it to conform to many complex contour surfaces.



Stretch Flow 2000 with NO BRIDGING on complex panel shape.



## Breather & bleeders fabrics

### BHT 20

**Big Time Saver**

Maximum Use Temperature	Carrier Type	Adhesive Type	Roll Sizes (Inches)	Roll Sizes (Metric)
180°C	Nylon	Acrylic	1" x 27 yards	25mm x 25m
Description				

BHT 20 is an adhesive backed nylon hook tape which can be used to secure and hold non-woven breather fabrics onto both metallic and composite tooling.



### Airpath MD

Maximum Use Temperature	Fibre Type	Configuration of Net	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	Braided tube	1"-2" x 250 feet	25-50mm x 76m
Description				

Airpath MD is a tough lightweight braided sleeve. The open weave construction provides excellent airflow when used as an edge breather.



### TFG 660 P2

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	PTFE coated fibreglass	530 g/m <sup>2</sup>	39" x 109 yards	1m x 100m
Description				

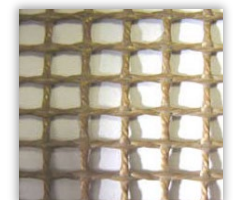
TFG 660 P2 is an open mesh PTFE coated woven glass fabric which has a plain weave structure. TFG 660 P2 has excellent chemical and heat resistance properties and can be used in a variety of composite applications.



### TFG 950 P2

Maximum Use Temperature	Fibre Type	Weight	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	PTFE coated fibreglass	460 g/m <sup>2</sup>	39" x 33 yards	1m x 30m
Description				

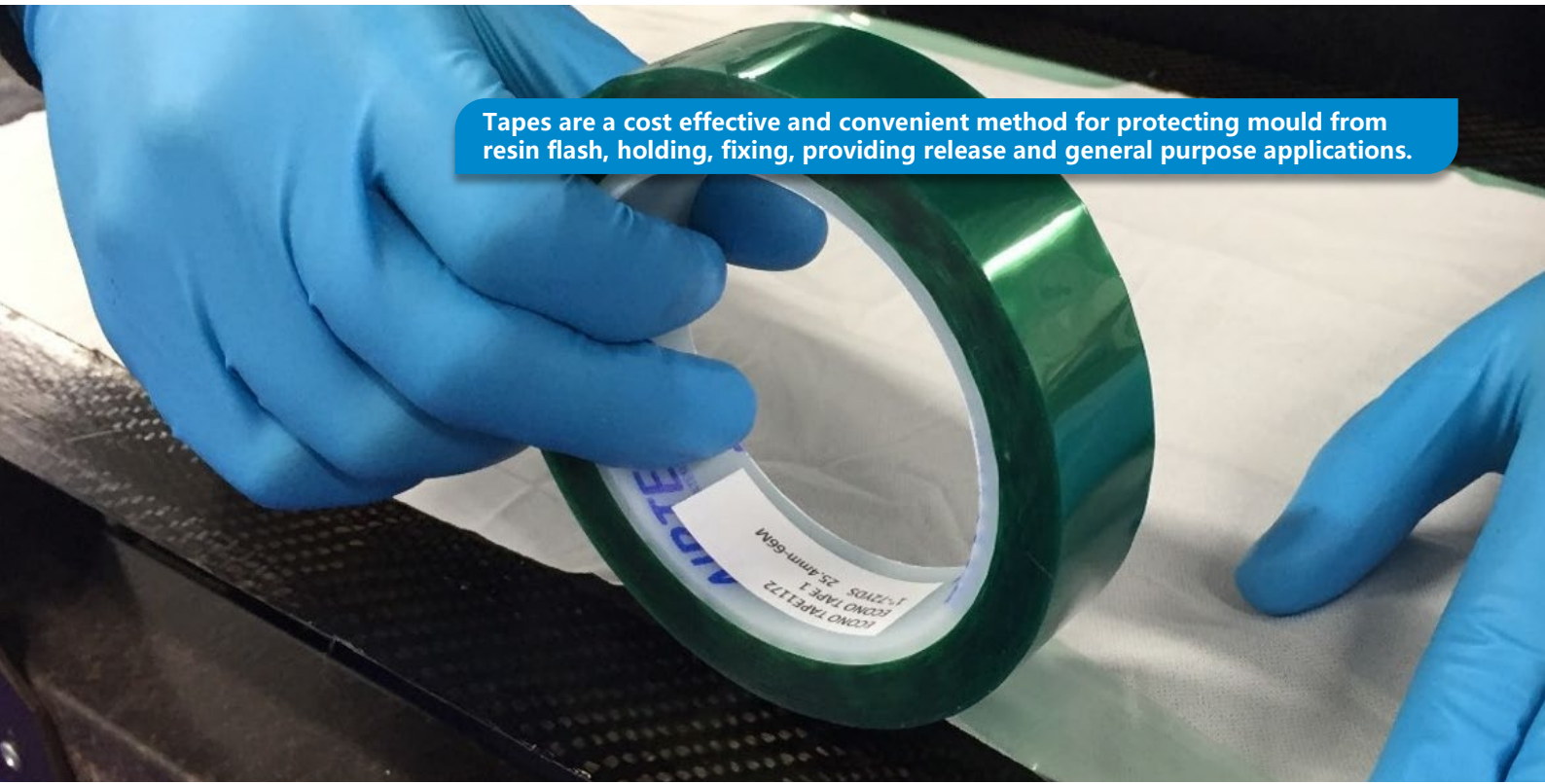
TFG 950 P2 is an open mesh PTFE coated woven glass fabric which has a plain weave structure. TFG 950 P2 has excellent chemical and heat resistance properties and can be used in a variety of composite applications.



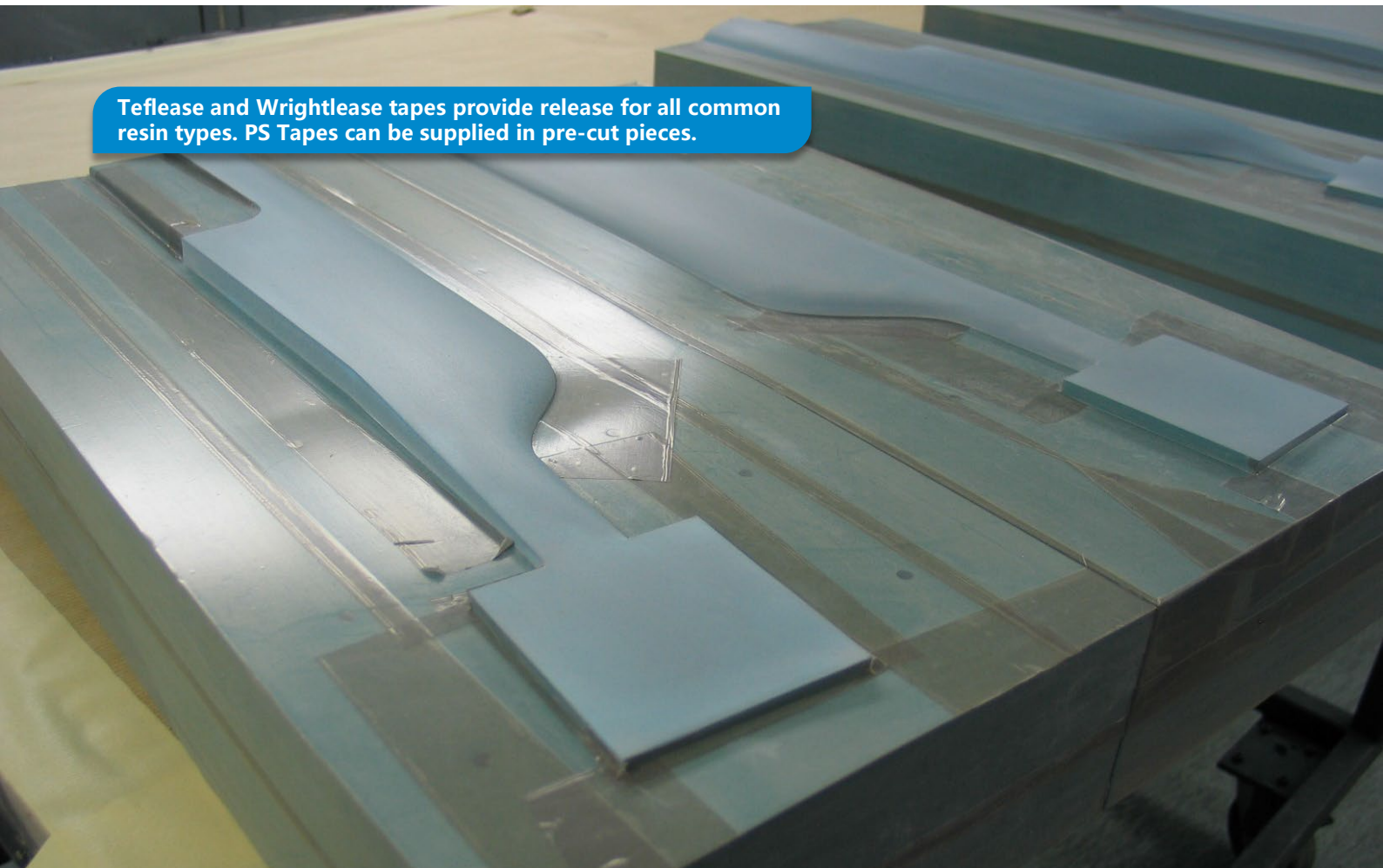
**Ultraweave® Breathers supplied in slit width rolls.**



## Pressure sensitive tapes



Tapes are a cost effective and convenient method for protecting mould from resin flash, holding, fixing, providing release and general purpose applications.



Teflease and Wrightlease tapes provide release for all common resin types. PS Tapes can be supplied in pre-cut pieces.



## 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.



### Flashbreaker® 1

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 multi-purpose 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.



### Wrightlease 2

**Workshop Essential**

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 colour 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 colour is highly visible on most substrates in addition to offering high elongation and tensile strength. Wrightlease 4 has 0,004" thick film and 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 1 1/2" x 36 yards 2" x 36 yards 4" x 36 yards	12mm x 33m 15mm x 33m 19mm x 33m 25mm x 33m 38mm x 33m 50mm x 33m 100mm x 33m
Description					

Teflease MG2 is a PTFE film coated with a silicone adhesive. It is 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.



### Airhold 1 CBS

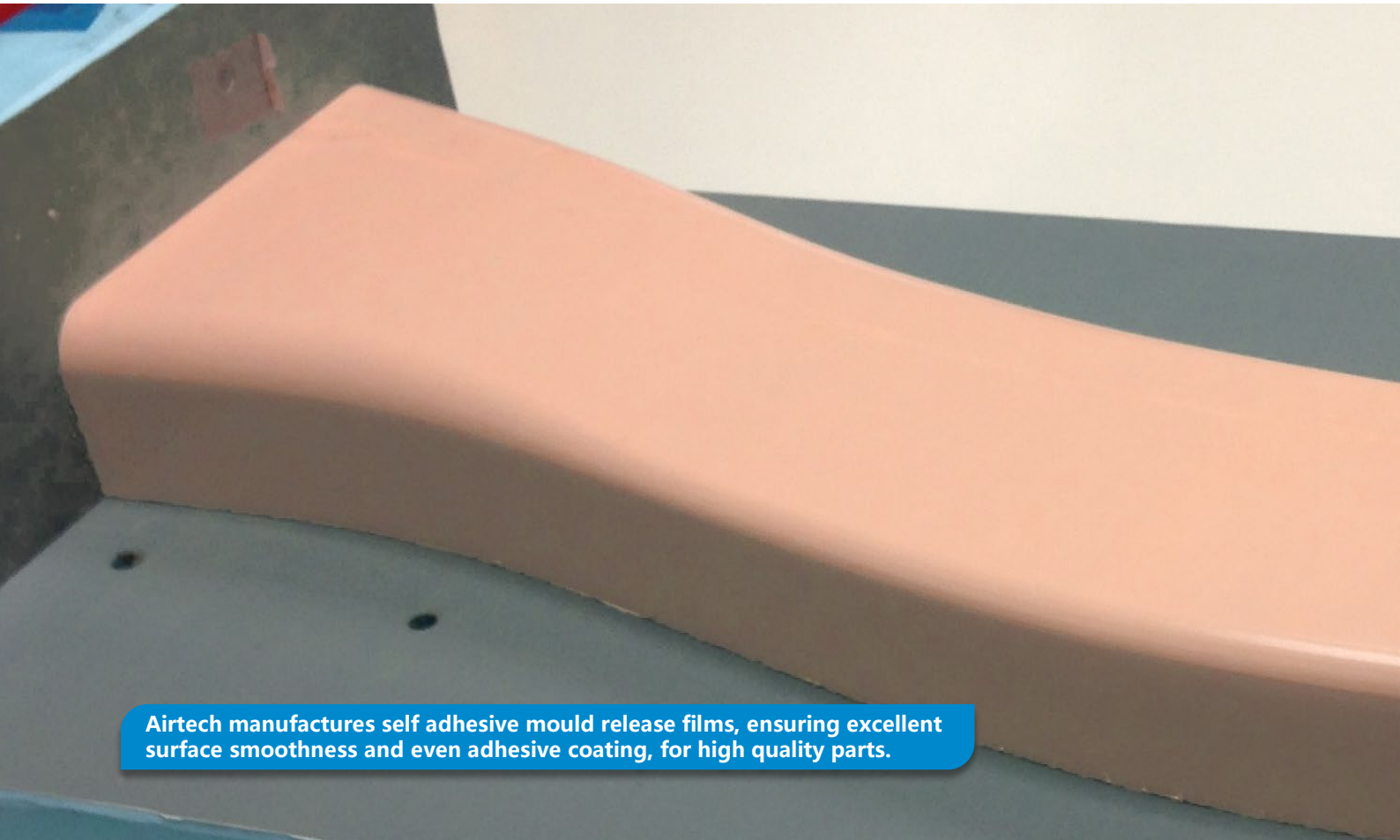
Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	Acrylic	White	1" x 36 yards 2" x 36 yards	25mm x 33m 50mm x 33m
Description					

Airhold 1 CBS is a double-sided fabric reinforced tape with a rubber based adhesive on both sides. It can also be used to hold breather in place on the backside of mould for envelope bagging applications.





## Mould release

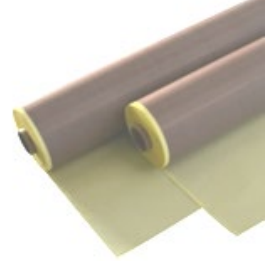




## Non-liquid release materials for patterns & moulds

### Tooltec® A005

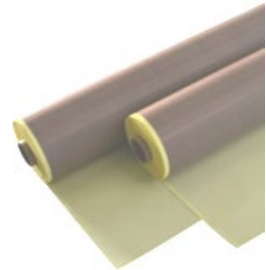
Maximum Use Temperature	Fabric	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	75µm PTFE coated fibreglass	Silicone	125µm		
Description				1" x 36 yards	25mm x 33m
<p>Tooltec® A005 pressure sensitive tape is designed to adhere to tool surfaces providing semi-permanent release and 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. Tooltec® A005 is a reinforced mould surface reconditioning tape providing a semi-permanent release for flat tools. This product comes standard with a silicone pressure adhesive, but can also be supplied with an acrylic adhesive by special order.</p>				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	1,5m x 16,5m



### Tooltec® A007

#### Hard Wearing Option

Maximum Use Temperature	Fibre Type	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
<p>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. Tooltec® A007 is a reinforced mould surface reconditioning tape providing a semi-permanent release for flat tools. This product comes standard with a silicone pressure adhesive, but can also be supplied with an acrylic adhesive by special order.</p>				39" x 18 yards	1,00m x 16,5m
				48" x 18 yards	1,22m x 16,5m

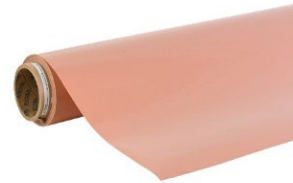


### Toolwright 3

#### Low Cost Release

Maximum Use Temperature	Fibre Type	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

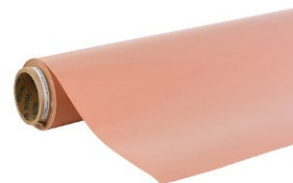
Toolwright 3 is an extruded fluoropolymer film coated with silicone pressure sensitive adhesive. Toolwright 3 has a thinner film than Toolwright 5 version and can be more easily applied over complex contour surfaces. Toolwright 3 has high elongation, good tear strength, high temperature resistance and excellent clean up after removal.



### Toolwright 5

Maximum Use Temperature	Fibre Type	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	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.



### Tooltec® CS5

#### Super Gloss Finish

Maximum Use Temperature	Fibre Type	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	PTFE	Silicone	165µm		
Description				4" x 18 yards	100mm x 16,5m
<p>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.</p>				39" x 18 yards	1,00m x 16,5m
				48" x 18 yards	1,22m x 16,5m



#### Notes:

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



## Vacuum bag sealant tapes



Low cost sealant tapes manufactured for economic debulking, oven cure & autoclave curing.



Vacuum sealant tapes close the vacuum bag to allow vacuum pressure to be made. Tapes can join bag to bag seams and seal vac bags to tool surfaces.



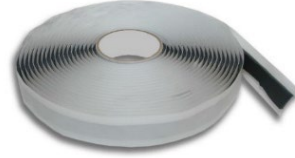
## Sealing vacuum bags to tools & sealing around tubing connections

### 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				

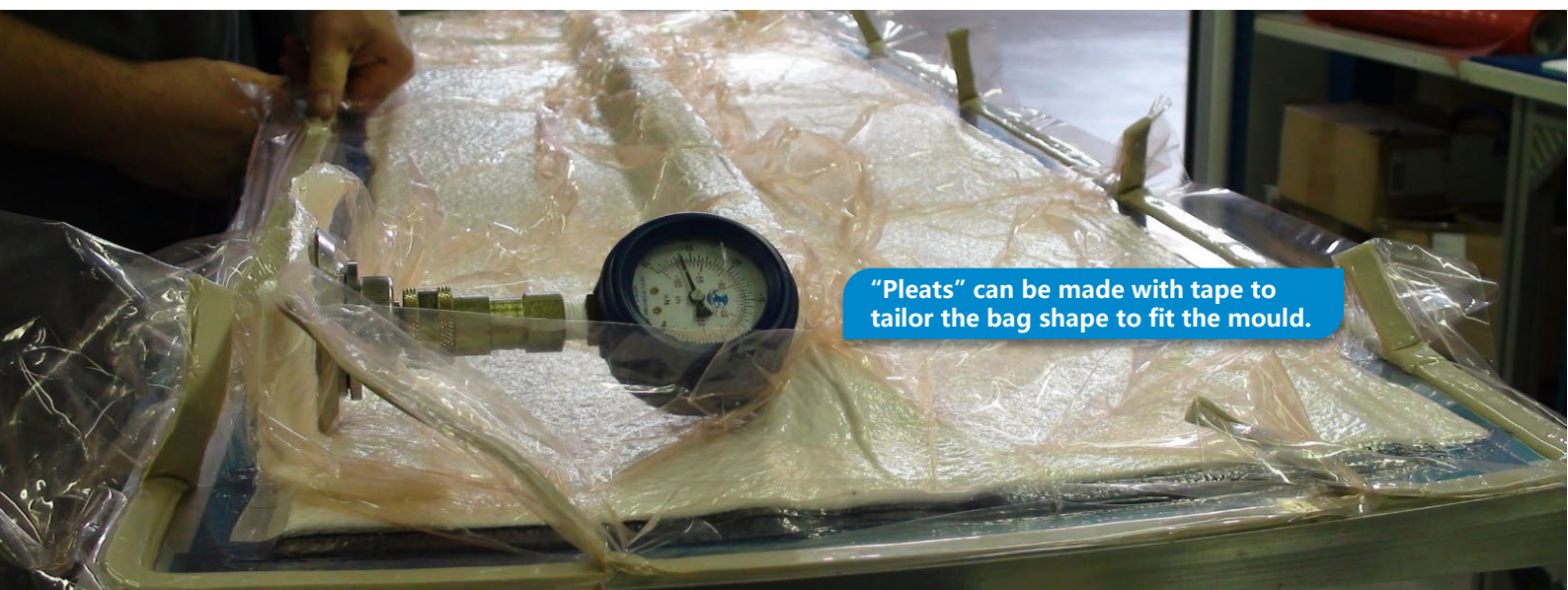
AT-200Y is an economical multi-purpose sealant tape with high tack. It removes easily from metal or composite tools. It is suitable for cure applications up to 204°C.



### GS-213

Maximum Use Temperature	Colour	Base Material	Tack Level	Roll Sizes
204°C	Off-white	Synthetic rubber	Good tack	3mm x 12mm x 7,6m 3mm x 19mm x 7,6m
Description				

GS-213 is recognized worldwide as the work horse for the composites and bonding industries. It has excellent tack, great clean-up, and is usable up to 204°C.



“Pleats” can be made with tape to tailor the bag shape to fit the mould.



## Vacuum valves & hoses

Multi-Valve MV407 in bag pleat, with VacPad.

### Vac Valve 509

Best Low Cost Option

Maximum Use Temperature	Material	Size
260°C	Aluminium base plate & carbon steel top piece	
Description		Ø 50 mm Base Diameter 1/4" NPT threaded fitting

Vac Valve 509 is a 2 piece vacuum valve which perforates the bagging film when the top piece is inserted and threaded into the base plate. The specific design of the threaded connection eliminates the need to cut the bagging film prior to inserting the top piece. Note: Can be supplied assembled with AQD500 Plug.



### Vac Valve 401C

Maximum Use Temperature	Material	Size
260°C	Cast aluminium	
Description		Ø 63 mm Base Diameter 1/4" Male NPT

Vac Valve 401C is a twist lock through bag connector designed to work with our AQD 500TF quick disconnects. In combination with our AQD 500 quick disconnects. Note: Can be supplied assembled with AQD500 Plug.



### Premium Multi-Valve 407

Leak Free Longest Life

Maximum Use Temperature	Material	Size
260°C	Stainless steel	
Description		Ø 60 mm Base Diameter 1/4 inch

The solid body design of the Premium Multi-Valve 407 combines the male quick disconnect and thru-bag connector, eliminating threaded connections and potential leak paths. Robust stainless steel construction ensures corrosion resistance and long life. High temperature O-ring and platinum cured silicone gasket give a long service life. It is fully compatible with 1/4" ISO-B "Hansen" style quick-disconnects. The valve mechanism and O-ring seals can easily be replaced to extend life.



### AQD 500TF Quick Disconnect Plug & Socket

Clean Room Essential

Maximum Use Temperature	Material	Size
260°C	Carbon steel	
Description		1/4" NPT

The AQD 500TF quick disconnect couplings are made of high carbon steel that have been plated to halt oxidation. The couplings have internal valves so when disconnected the airflow is shut off in both plug and socket. This means your vacuum bag holds vacuum even after the vacuum hose has been disconnected.



For workshop, oven & autoclave

## Airflow 60R

**Clean Room Essential**

Maximum Use Temperature	Material	Thread Size	Hose Length
232°C	Silicone rubber / steel	1/4 inch male NPT	Up to 10m (33 feet)
Description			

Airflow 60R can be used as an autoclave or oven hose. The outer ply is silicone rubber over a flexible steel spiral. There are no wire braids to puncture the rubber jacket or the vacuum bag. The hose is supported by a flexible stainless steel spiral that prevents collapse under autoclave pressure. The bell shaped ferrule prevents hose lacerations at fitting ends extending hose life. Due to its unique construction Airflow 60R hose has the advantage that is easy to repair by replacing the damaged parts like the end fittings. For more information about Airflow 60R repair kit please contact your Airtech sales representative.



## Airflow 65R

**Best All-Rounder**

Maximum Use Temperature	Material	Thread Size	Hose Length
232°C	Silicone rubber / Interlocking steel tube	1/4 inch male NPT	Up to 30m (100 feet)
Description			


Airflow 65R can be used as an autoclave or oven hose. The outer ply is silicone rubber that encases a flexible steel tube that prevents collapse and hose separation. The bell-shaped ferrule helps prevent hose lacerations at fitting ends extending hose life. Note: Can be supplied assembled with AQD500 sockets on each end.



## Airflow 100R

Maximum Use Temperature	Material	Thread Size	Hose Length
260°C	Silicone rubber / steel	1/4 inch male NPT	Up to 30m (100 feet)
Description			

Airflow 100R is a durable high temperature and high pressure autoclave hose with the addition of a silicone rubber outer protective sleeve. The hose construction consists of a braided steel outer covering a PTFE inner tube supported with a flexible steel spring conduit. Its unique design prevents collapse from vacuum or autoclave pressures.

- Elbows can reduce stress on hose & bags reducing risk of hose leaks & bag failures.

**Airflow 65R connected to VacView.**



# Leak detection & lay-up tools

## Vac-Gauge 30

Low Cost Gauge

Assembly Style	Range	Screw Thread
Screwed	0 - 30 in. Hg (0 - 100 KPa)	
Description		

Vac-Gauge 30 is our durable, inexpensive vacuum gauge used to determine how much vacuum is under your vacuum bag. A heavy ridged blue rubber jacket protects the gauge from damage in normal shop use. The Vac-Gauge 30 stem is a 1/4 inch male NPT fitting that fits easily into our AQD quick disconnects.

**Note:** Can be supplied assembled with AQD500 Socket.

1/4 inch male NPT



## Vac-Gauge 40D

Clean Room Essential

Assembly Style	Range	Screw Thread
Screwed	0 - 30 in. Hg (0 - 100 KPa)	
Description		

Vac-Gauge 40D is a versatile digital vacuum gauge used for leak detection and vacuum determinations under your vacuum bag. The gauge offers vacuum readings in four selectable units: mBar, mmHg, inHg, and KPa. A heavy duty rubber jacket protects the gauge from damage in normal shop use. The Vac-Gauge 40D connection stem is a 1/4-18 inch NPT thread fitting that fits easily into our AQD quick disconnects.

**Note:** Can be supplied assembled with AQD 500TF socket

1/4 inch male NPT



## Vac Saver HT

Service Temperature	Material Type	Material Type Seals	Screw Thread
200°C	Anodized aluminium	Fluorocarbon	
Description			

Vac Saver HT is a one way check valve used to protect vacuum bagged parts against vacuum loss. Vac Saver HT protects against back pressure when multiple lines are connected to a single vacuum source. In case of a vacuum loss in a part which is connected to the same vacuum source, the Vac Saver HT closes automatically and protects parts against vacuum loss. Vac Saver HT can be used in combination with our quick disconnectors like AQD 500TF and our Airflow vacuum hoses.

1/4 inch male NPT



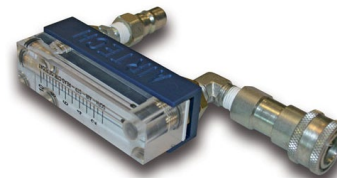
## Vac View 10

Clean Room Essential

Graduations	Construction	Range	Quick Disconnect Plug / Socket
0,5 SCFH	Acrylic body with carbon steel connections	0 to 4,7 litres / minute	
Description			

The Vac View 10 leak indicator allows the instant detection of both high and low level leakages within a vacuum bag. Airflow through the Vac View causes the internal ball to oscillate and float inside the acrylic body, displaying a definite airflow reading which can be read off against the scale. This allows the size of the leak to be easily quantified.

Supplied with AQD 500TF plug and socket fitted



## VacLeak LEQ-70

Frequency Response	Equipment Components	Display
38-42 kHz	Receiver, headphones, hollow probe and carrying case	Ten element bar graph
Description		

The latest VacLeak LEQ-70 Series 3 is a compact economical vacuum leak detector for finding leaks in vacuum bags, sealant tapes, hoses and fittings. The VacLeak LEQ-70 Series 3 has improved circuitry for 20% more sensitivity to convert the ultrasonic sound produced by leaks to an audible level and also visually display the leak on an LED meter. With clearer sound technicians can detect leaks faster than ever before.



## Gauges, flow meters and ultrasonic detectors & tools for prepreg laminating

### Airsweep

#### Clean Room Essential

Description	Product Reference	Colour	Material	Length
Airsweep is a HDPE paddle, designed to help compact prepreps and wet lay-ups into a difficult radius. Airsweep also aids in removing wrinkles and trapped air between plies. Airsweep has a grip ridge in the centre for finger comfort which also helps in applying pressure.	Airsweep	White	HDPE	10cm
	Airsweep R2 (with handle)	White	UHMW PE	11,5cm
	Airsweep R3 (with handle)	Black	Nylon	11,5cm



### Shop Shears

#### Cuts Glass, Carbon & Aramid

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"	150g
	SS-7230-9	Straight shears	23cm / 9"	170g
	SS-7250-10	Straight shears	25cm / 10"	210g
	SS-7280-11	Straight shears	28cm / 11"	248g
	SS-7300-12	Straight shears	31cm / 12"	306g



### Airtac 2 LH+ Spray Adhesive

#### Low Hazard

Spray Style	Adhesive Type	Characteristics	Colour	Can Size	Cans Per Case
Fine mist	High tack adhesive	Methylene chloride free, toluene free	Clear	500ml	12 cans / case
Description					
Airtac 2 LH+ is a high tack 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 R3 and Shop Shears in use during BETA prepreg lay-up.



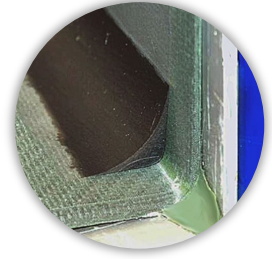
## Pressure pads & accessories

### Pressure Strip

Clean Room Essential

Maximum Use Temperature	Colour	Base Material	Roll Sizes
230°C	Black	Uncured butyl rubber	3mm x 25mm x 7,6m
Description			

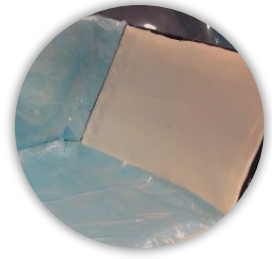
Pressure Strip is a butyl rubber tape used as an intensifier in corners where pressure is difficult to apply with only a vacuum bag. Pressure Strip is easily applied uncured on the prepreg layup and moulds to part shape during the cure cycle. Pressure Strip works from 120°C up to 230°C in autoclave or oven.



### Airflex

Maximum Use Temperature	Colour	Base Material	Roll Sizes
180°C	White	Uncured silicone	6mm x 0,45m x 1,55m
Description			

Airflex is an uncured silicone rubber which has been specially formulated for use as a pressure intensifier on complex shaped parts during vacuum bagging. It can also be used to provide vacuum bag protection from puncture due to bolt heads. Uncured Airflex can be applied over a release film on a prepreg lay-up, it will cure out in the early stages of cure and will then apply pressure intensification through prepreg curing stage. Alternatively, Airflex can be cured out on its own at 125°C in 20 minutes and then used as a cured intensifier over prepreg lay-ups.



### Aircast 3700 A & B

High Thermal Expansion

Maximum Use Temperature	Colour	Base Material	Packaging
232°C	Tan (base) / Blue (cure agent)	RTV silicone rubber	4,08kg Kit
Description			(Part A 3,63kg + Part B 0,45kg)

Aircast 3700 A/B is a two component modified RTV compound designed for use in the manufacturing of flexible moulds and mandrels. Aircast 3700 A/B is also ideal for casting pressure pads. The high differential in thermal coefficient of expansion between Aircast 3700 A/B and a mould makes it useful in trapped rubber moulding.



### Airfill 2

Clean Room Essential

Maximum Use Temperature	Colour	Base Material	Packaging
232°C	Black : White (A:B)	Polyester	Quart Kit
Description			(Part A 1,22kg + Part B 28g)

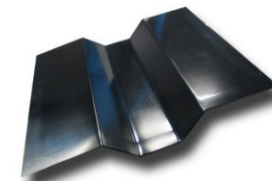
Airfill 2 is a high temperature polyester quick setting filler paste that can stand up to 232°C. Airfill 2 is typically used for pattern work, temporary mould repairs, trim and drill tools and assembly fixtures, gel-coat repairs. The thixotropic flow behaviour of Airfill 2 allows an easy application and good coverage.



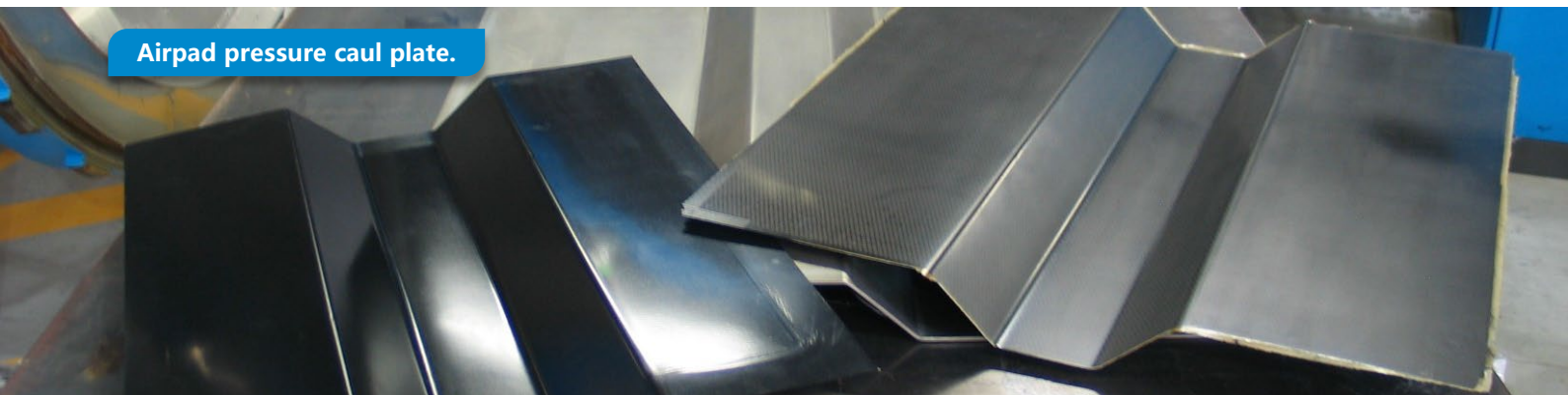
### Airpad

Maximum Use Temperature	Colour	Base Material	Roll Sizes
204°C	Black	Non-silicone rubber	1,6mm x 137cm x 15,24m
Description			

Airpad is an uncured, non-silicone rubber for manufacture of pressure caul sheets, flexible mandrels, and rubber tooling. Airpad caul sheets improve part quality on the vacuum bag side of the part. The Airpad pressure intensifier provides uniform pressure distribution during autoclave processing. Airpad will take high temperature similar to silicone rubbers but will not cause silicone contamination. Airpad is dimensionally stable when reinforced with Airtech Toolmaster Prepregs, which bond well and do not generate volatiles that could also cause delamination.



Airpad pressure caul plate.

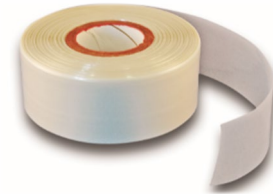


## Rubber intensifiers, shrink tapes, thermocouples & table cutting tops

### A 575 & A 575 RC Shrink tape

Maximum Use Temperature	Material	Starts to shrink	Sizes
204°C	Polyester	79°C	
Description			

25mm x 91,4m  
 50mm x 91,4m



A 575 high shrink tape is a flexible polyester tape. Ideal for mandrel wrapping aircraft tubular parts, golf shafts, tennis rackets, fishing rods, etc. A 575 RC is coated with a non-silicone release agent for direct release. This eliminates the need for release films or release fabrics used under A 575. The release coating is on the outer surface of the tape roll. A 575 and A 575 RC are available with the P3 perforation for evacuation of volatiles.

### Auto-Couple 20, 24 & 28

**Clean Room Essential**

Maximum Use Temperature	Thermocouple Type	Product Reference	Sizes
246°C	Type J moulded male plug & Tig welded junction	Auto-Couple 20	20 Gauge (0,81mm) x 4,57m
Description		Auto-Couple 24	24 Gauge (0,51mm) x 4,57m

Auto-Couple 28 28 Gauge (0,32mm) x 4,57m  
 Auto-Couple EXT 3m; 6,1m & 9,1m

Auto-Couple is an economical, ready to use thermocouple, designed to reduce vacuum leakage during autoclave temperature measurement. The male connector is welded to the wire extrusion, eliminating any user assembly. Auto-Couple may be used repeatedly. Auto-Couple EXT thermocouple extension wires bridge the long runs between part thermocouples and jack panels in the autoclave. Auto-Couple EXT features a rugged construction that allows for reuse in the autoclave.

**Note:** Type K thermocouple can also be supplied.



### Durocast

**Clean Room Essential**

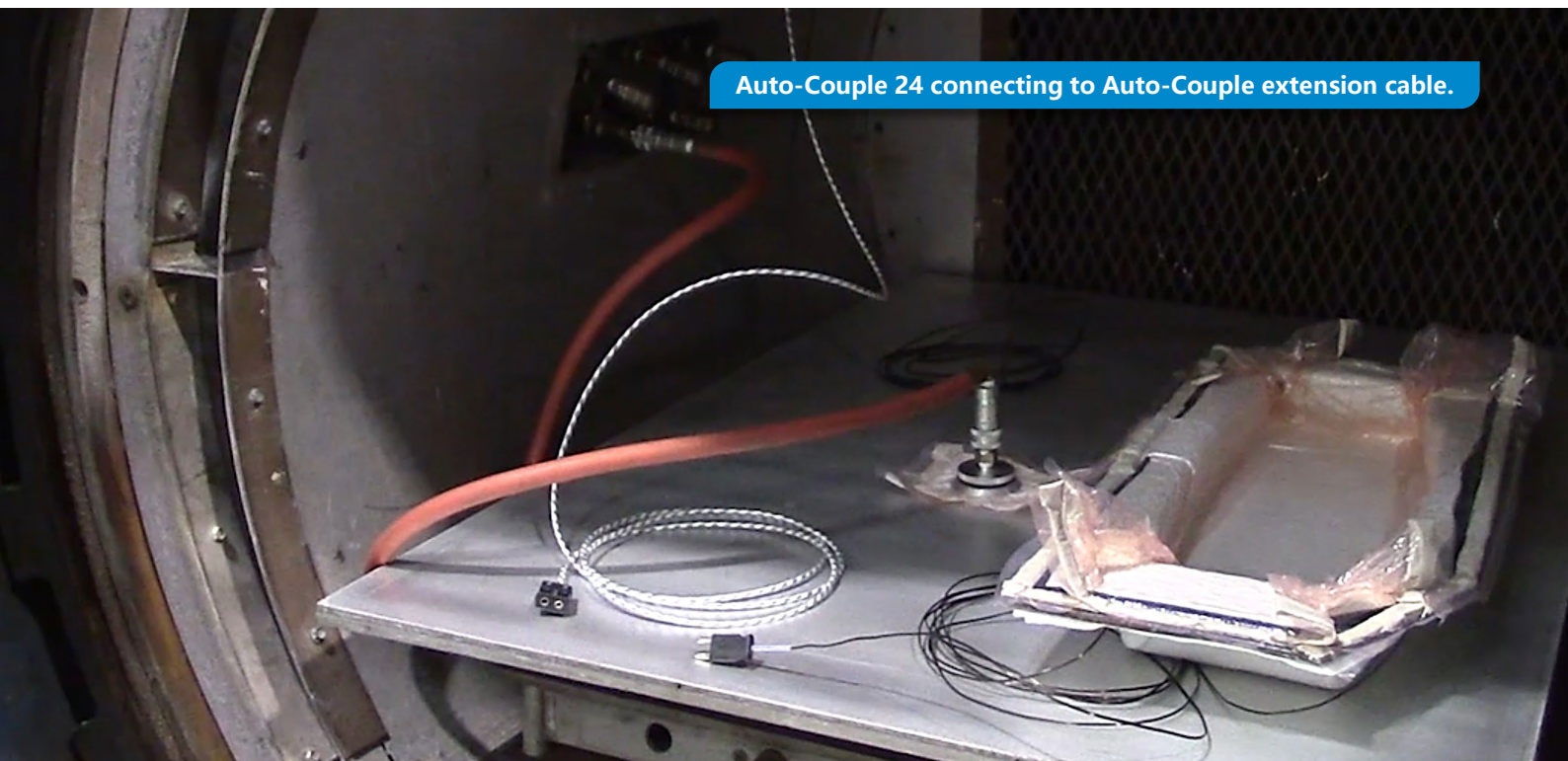
Colour	Material	Thickness	Sizes
Blue	Polyurethane	6mm	
Description			

0,91m x 1,83m  
 1,22m x 2,44m  
 1,22m x 3,66m



Durocast table tops are manufactured using the highest grade urethane available. The cutting surfaces always provide a smooth, non-contaminated working surface. Our standard size, colour and gauge table tops can be certified to be silicone free.

Auto-Couple 24 connecting to Auto-Couple extension cable.





## Kitted & custom engineered products

### Customisation of materials

- Cut to shape materials
- Printing on materials
- Welded materials
- Sewn materials
- Bonded materials
- Assembled materials
- Kitted materials



### BENEFITS

#### Simplify Purchasing

Include Consumables on BOM  
Predict usage more accurately



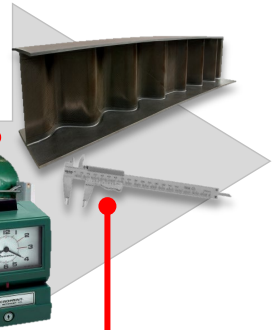
#### Reduced Operator Motion

Reduce travel time to rack  
Reduce waiting & restock times  
Reduce materials cutting times



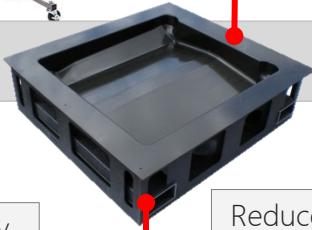
#### Reduce Cycle Time

Reduce time spent bagging  
Increase product throughput



#### Increase Stores Efficiency

Simplify stock control  
Introduce line feed  
Reduce overstocking space



#### Reduce Cost of Waste

Get Nesting efficiencies  
Reduce waste material  
Reduce waste disposal costs



#### Reduce Touch Labour

Reduce time spent trimming  
Reduce cutting error waste  
Reduce bagging time

#### Improve repeatability & Part quality

Establish bagging standards  
Reduce cross shift variations  
Reduce bagging error root cause part faults

# Combo-Tech

Combo-Tech combination of Peel ply / Release film / Breather



## Benefits

- Reduce kitting labour & cycle times.
- Controlled resin bleed out to reduce weight.
- Reduce number of materials.
- Improve surface finish & laminate quality.
- Reduce cost of rework & cost of scrap.

## How to Combo-Tech

1

Choose your materials, include detail such as, e.g. Product type, weight, thickness, color, perforation, etc.

2

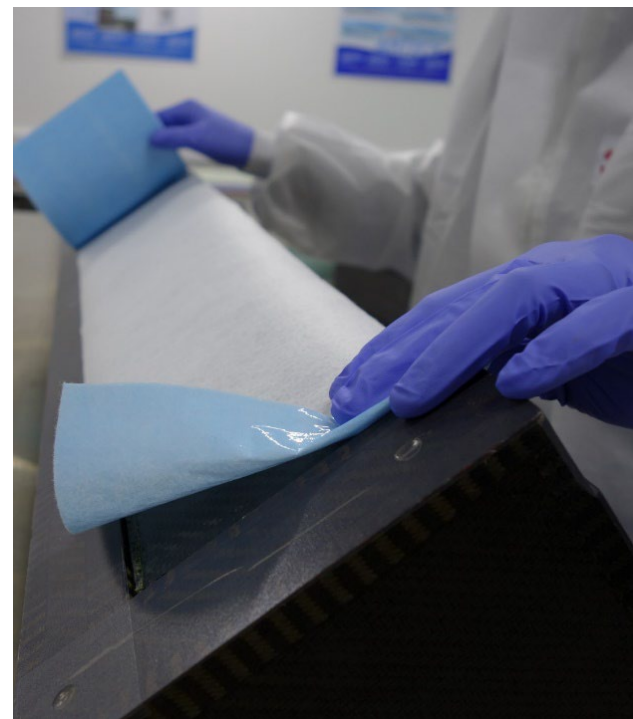
Choose your Combo-Tech

- Roll up orientation (which material is on outside, middle and inside)
- Edge style (untrimmed, trimmed, staggered)
- Roll width and preferred length (these will be based on standard sizes of individual rolls to minimize waste)

3

Contact Airtech

- with your request and we will provide a quote with lead time and minimum order quantity that will apply.





# Dahltram® 3D Print Tooling Resins

## Dahltram® S-150CF

Low Temperature Applications

Service Temperature	Materials Type
88°C	Modified ABS / Carbon Fiber

Description

Dahltram® S-150CF is a cost effective, low temperature use, additive manufacturing polymer with a service temperature of 88°C. It is reinforced with carbon fiber for maximum strength and long-term performance. Dahltram® S-150CF is ideal for room temperature tooling solutions and low temperature master molds.

## Dahltram® C-250CF

High Strength Applications

Service Temperature	Materials Type
135°C	Modified PC / Carbon Fiber

Description

Dahltram® C-250CF is a cost effective, low to medium temperature use, additive manufacturing polymer with a service temperature of 135°C. It is reinforced with carbon fiber for maximum strength and long-term performance. Dahltram® C-250CF is ideal for room temperature tooling solutions and low to medium temperature master moulds.

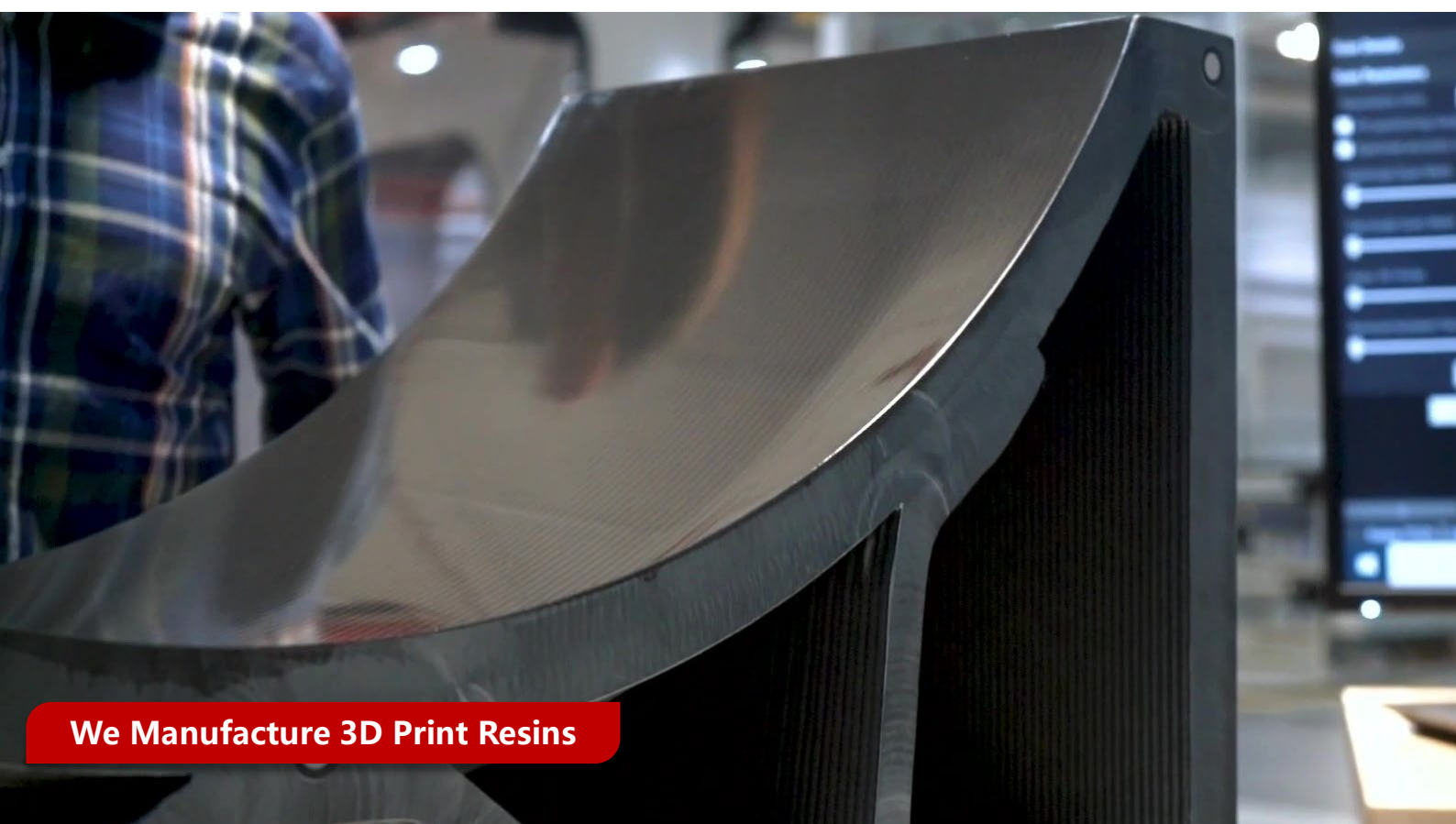
## Dahltram® I-350CF

High Temperature Applications

Service Temperature	Materials Type
204°C	Modified PEI / Carbon Fiber

Description

Dahltram® I-350CF is a cost effective, high temperature use, additive manufacturing polymer with a service temperature of 204°C. It is reinforced with carbon fiber for maximum strength and long-term performance. Dahltram® I-350CF is ideal for high temperature tooling solutions and high temperature master moulds.

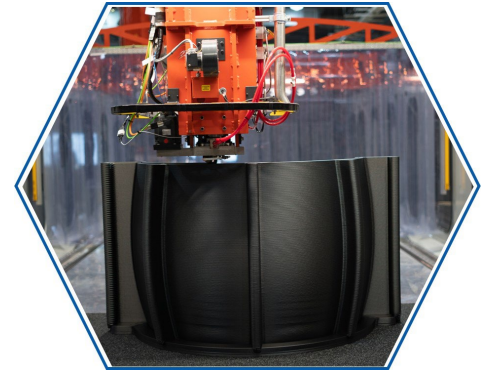


We Manufacture 3D Print Resins

## Tooling Resins for Additive Manufacturing

### Performance Benefits

- Tools from conception to the production floor in days not weeks.
- Dahltram® I-350CF is a cost effective solution ideal for 176°C process.
- Higher strength, higher temperature performance with lower creep.
- Carbon reinforcement offers greater stiffness low warpage for predictable results.
- Lower moisture absorption, better strength to weight, higher stiffness, and higher flexural strength than other high temperature additive manufacturing resins.
- Proven long term stability of high temperature tools with test data supporting hundreds of cycles with no degradation & high stability.



### Why Airtech resins

- Thermoset & Thermoplastic resin experience based on nearly 50 years of extrusion experience
- Resin formulation capability and quality control
- Our in-house compounding, bespoke materials, niche applications
- Tooling material & process expertise in multiple applications (e.g. Wet process, Infusion, Prepregs & Automated lay-up)

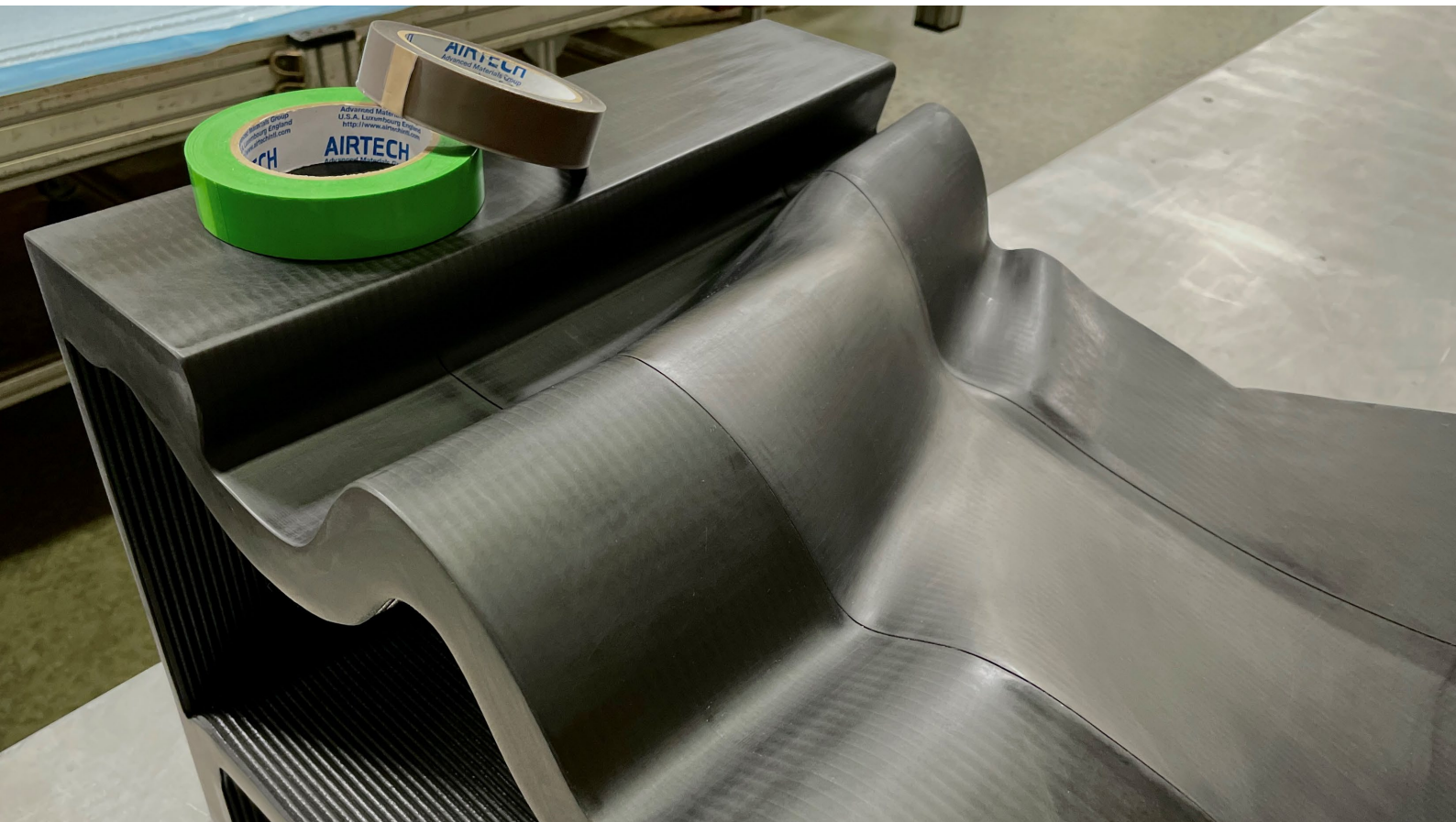




## Print-Tech®



We Print Large Scale Additive Manufactured Tooling





## Additive Manufactured Composite Tooling





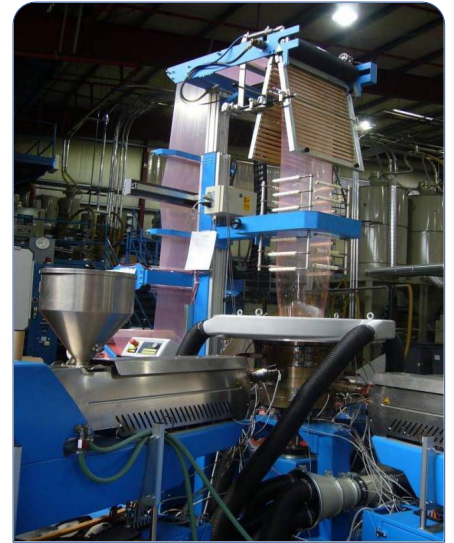
## Airtech Europe customer service



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



Customer Service  
Team Contacts



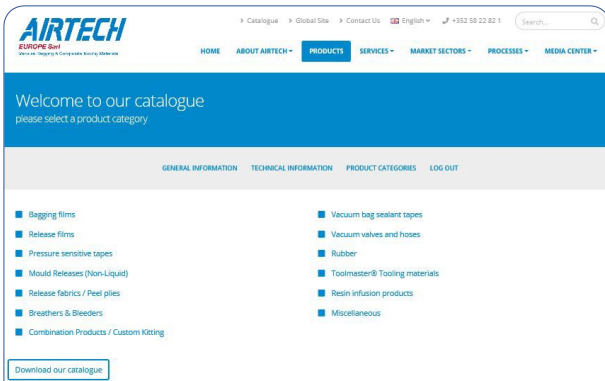
Development, Innovation &  
Continuous Improvement



Technical Support, Training Workshop & On-site Training Support



Quality System Accreditation

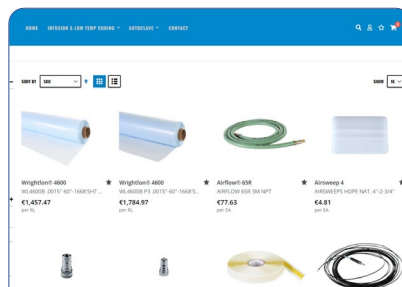


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Technical Data Sheet & Safety  
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available in 6 languages.



Sample Service

Check our Online store  
Fast ordering and shipping!  
Choose from the Airtech online  
range of products for Prepreg Autoclave:  
<https://estore.airtech.lu/>



Recyclable Packaging



Dedicated to the needs of our customers

Airtech has been a supplier and supporter of all forms of Motorsport since the 1980's. We continue to develop new materials specifically for Automotive Composites using expertise developed in all composite industries such as Aerospace, Wind Energy, Marine etc.



### All American Racers

Swift 009.c Champ Car

On display at Airtech International, Huntington Beach, this Champ Car is an example of a full composite race car designed and built in the USA with Airtech materials.



Driver: Michael Andretti  
 Racing: 1998 Cart Season  
 Chassis: #008  
 Weight: 1550 lbs.  
 Top Speed: 220 Mph+





## Need more Information, a Quote or a Sample ?

Please contact our customer service team

Phone: +352 58 22 82 1

Email: [sales@airtech.lu](mailto:sales@airtech.lu)



## About Airtech Europe


Differdange, Luxembourg


[www.airtech.lu](http://www.airtech.lu)

[www.airtech3D.com](http://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; Tygavac, Chadderton; 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.

### Contact Us

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Luxembourg

 **Phone:** +352 58 22 82 1

 **Email:** [sales@airtech.lu](mailto:sales@airtech.lu)

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