



## Vacuum Bagging for General Composite Moulding

Spring 2020



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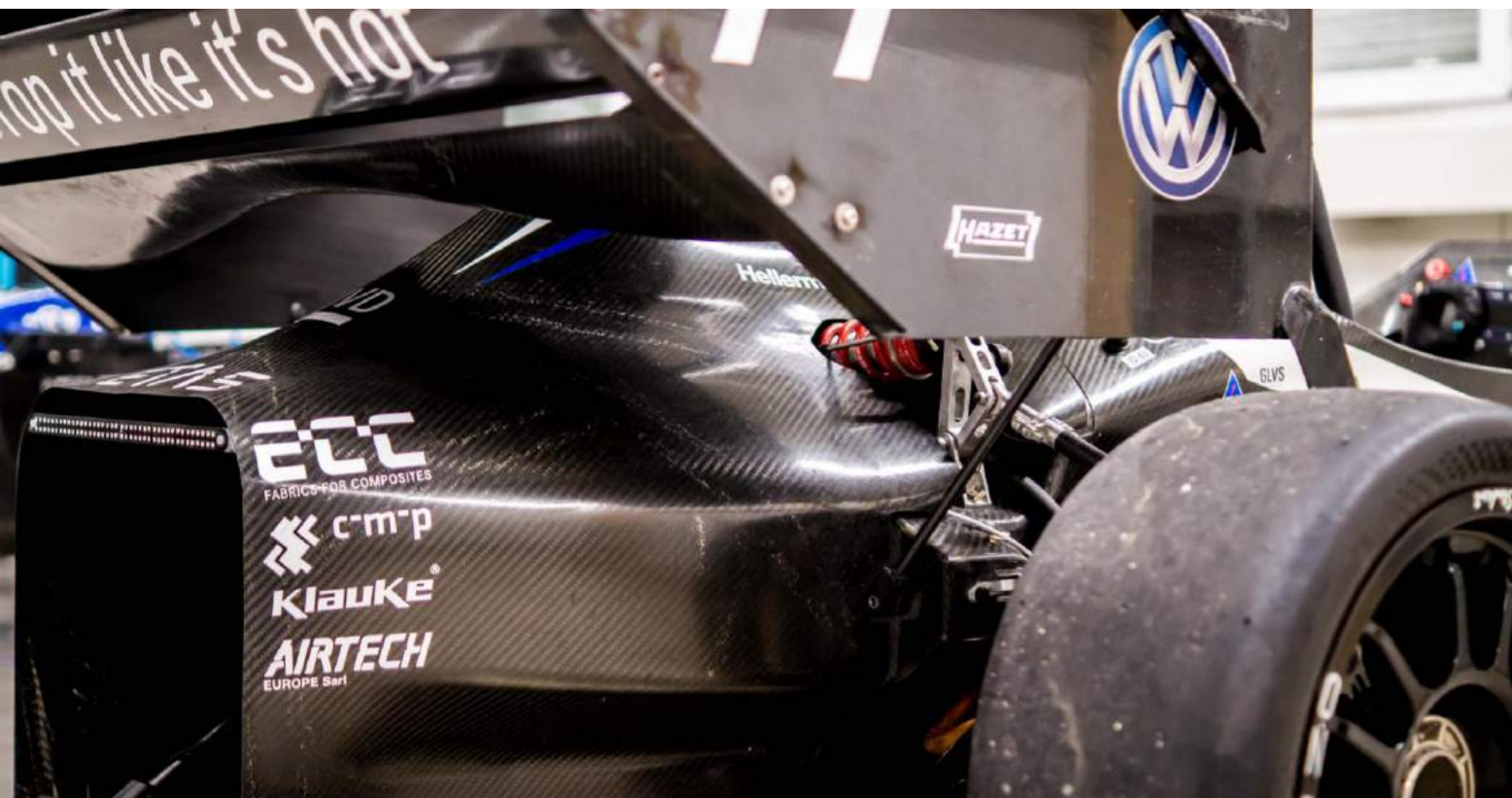
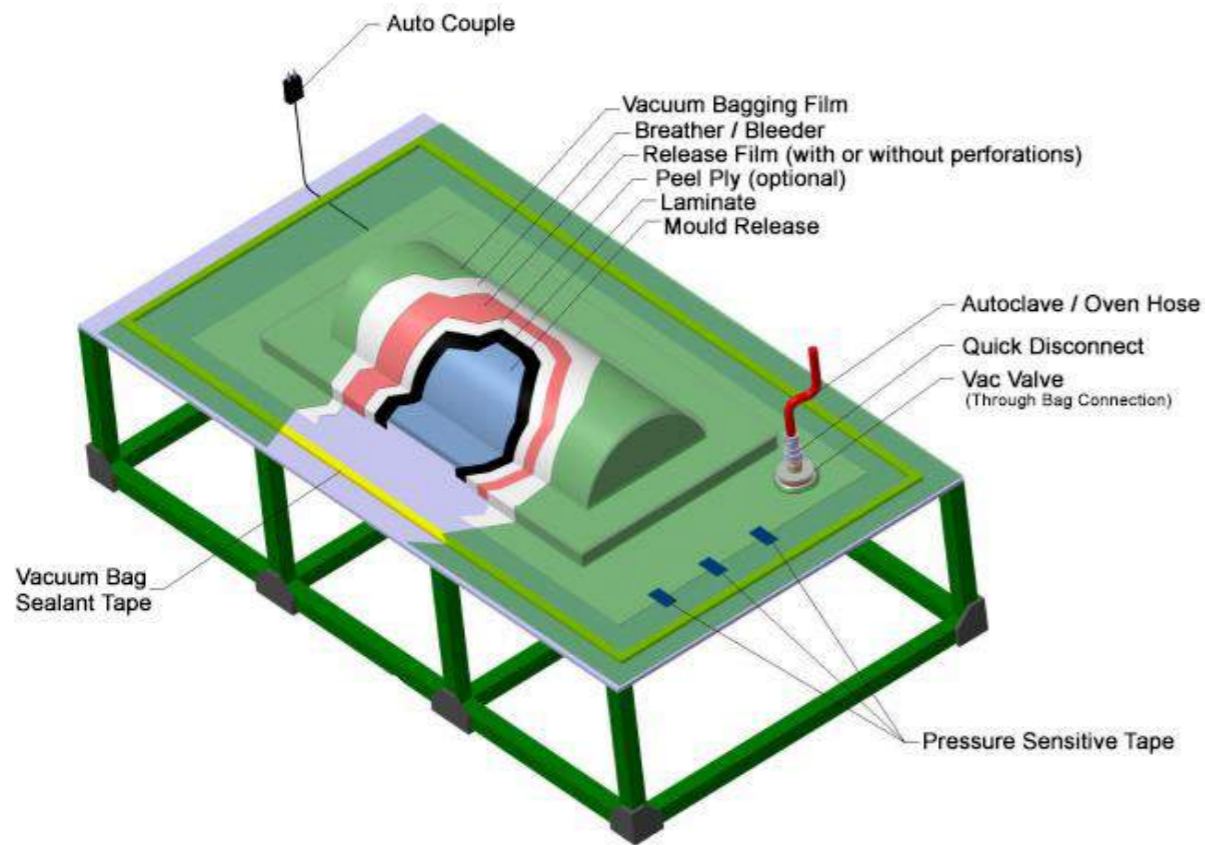
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# Welcome

## What's New in Spring 2020

Latest product news from Airtech



### Wrightlon® 250Y Vacuum bag film

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.



### 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.

### EconoTape 1 Low cost tape

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.

### AS1 Vacuum bag sealant tape

AS1 is an economical multi-purpose sealant tape with high tack. It removes easily from metal or composite tools.



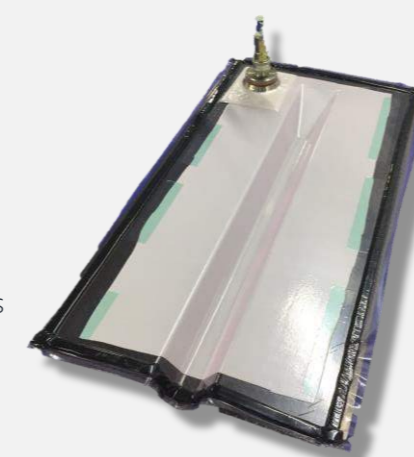
Suitable for cure applications up to 120°C.



### Airtac 2 LH Spray adhesive

Airtac 2 Low Hazard is a fine mist spray adhesive with excellent tack and bond strength for holding dry fabric reinforcements and vacuum bag materials during infusion setups.

Airtac 2 LH is lower cost and safer to use than standard shop adhesive sprays.



### 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.

# Vacuum bagging films

Airtech manufactured vacuum bag films made for composites

Vacuum bags made with tubular film



## Benefits of vacuum bags

- Vacuum bag pressure applies evenly over complex shaped parts without the need for matched tooling. Autoclave pressure increases applied pressure for better results.
- Vacuum bag films are air tight and can apply vacuum pressure and increased autoclave pressure.
- Tubular film can be used for envelope bagging and sheet film for edge sealed vacuum bags.

## Benefits of Airtech vac bag films

- Airtech manufactures vacuum bag films, developing new film types for new applications & processes.
- We manufacture wide film so large parts can be bagged without joins to reduce cost and risk of leaks.
- We also manufacture small tubing for internal bags in hollow parts such as ducts, frames and rods.
- We manufacture low temperature, high temperature, strong and high elongation versions of vacuum bag films for specific process types.
- Airtech manufactures lower cost films, that work well for autoclave production.

Chassis being bagged for cure



## 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
<b>Description</b>				

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
<b>Description</b>				

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
<b>Description</b>				

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

No.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
<b>Description</b>				

Stretchlon® 850 is a high elongation n 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.

- 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

## Applications of small bore tubes

- Air ducting parts.
- Stringer stiffeners.
- Bike frames & forks.
- Shafts & tubes.
- Frame structures – seats, doors, windows etc.
- Sporting goods – hockey sticks, fishing poles, etc.
- Motorsport parts –ducts, frames, rods, tubes, etc.

## Benefits of small bore tubes

- Easily mould hollow parts such as ducts, shafts and stiffeners with internal vac bags.
- Right sized tubes, also available with gusset-fold ensure excellent fit and so better part quality.
- Easier to position during layup, easier to remove after cure, saving time.

Dahlar RB375 small bore tubing with gusset inside a hollow stringer, connected to external vacuum bag to provide pressure outside & inside hollow part.

## Airtech manufactured vacuum bag films made for composites

### 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
			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 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.

### 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
			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 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

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.

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.

### Ipplon® KM1300

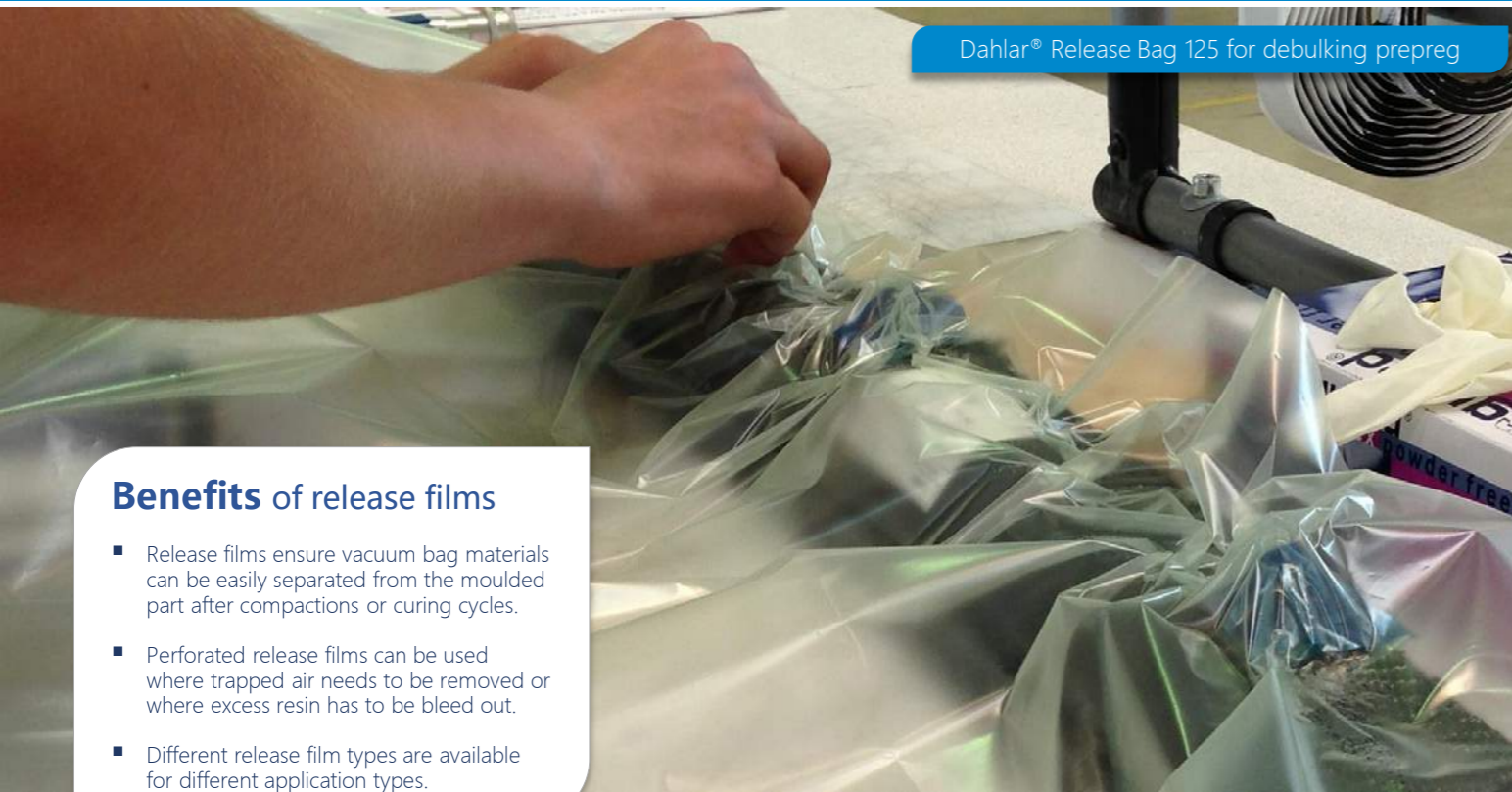
Maximum Use Temperature	Elongation	Tensile Strength	Roll Sizes (Inches)	Roll Sizes (Metric)
212°C	450%	48 MPa	0,002" x 2" LFT x 500ft	50µm x 51mm LFT x 152m
Description				
			0,002" x 3" LFT x 500ft	50µm x 75mm LFT x 152m
			0,002" x 4" LFT x 500ft	50µm x 101mm LFT x 152m
			0,002" x 5" LFT x 500ft	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

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



# Release films

## Release films made for prepreg compaction and curing



Dahlar® Release Bag 125 for debulking prepreg

### Benefits of release films

- Release films ensure vacuum bag materials can be easily separated from the moulded part after compactions or curing cycles.
- Perforated release films can be used where trapped air needs to be removed or where excess resin has to be bleed out.
- Different release film types are available for different application types.



Wrightlon® 5200 for prepreg curing

### Benefits of Airtech 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.
- Fluoropolymers leave higher gloss surfaces on parts where smooth carbon finish is desired.

### 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

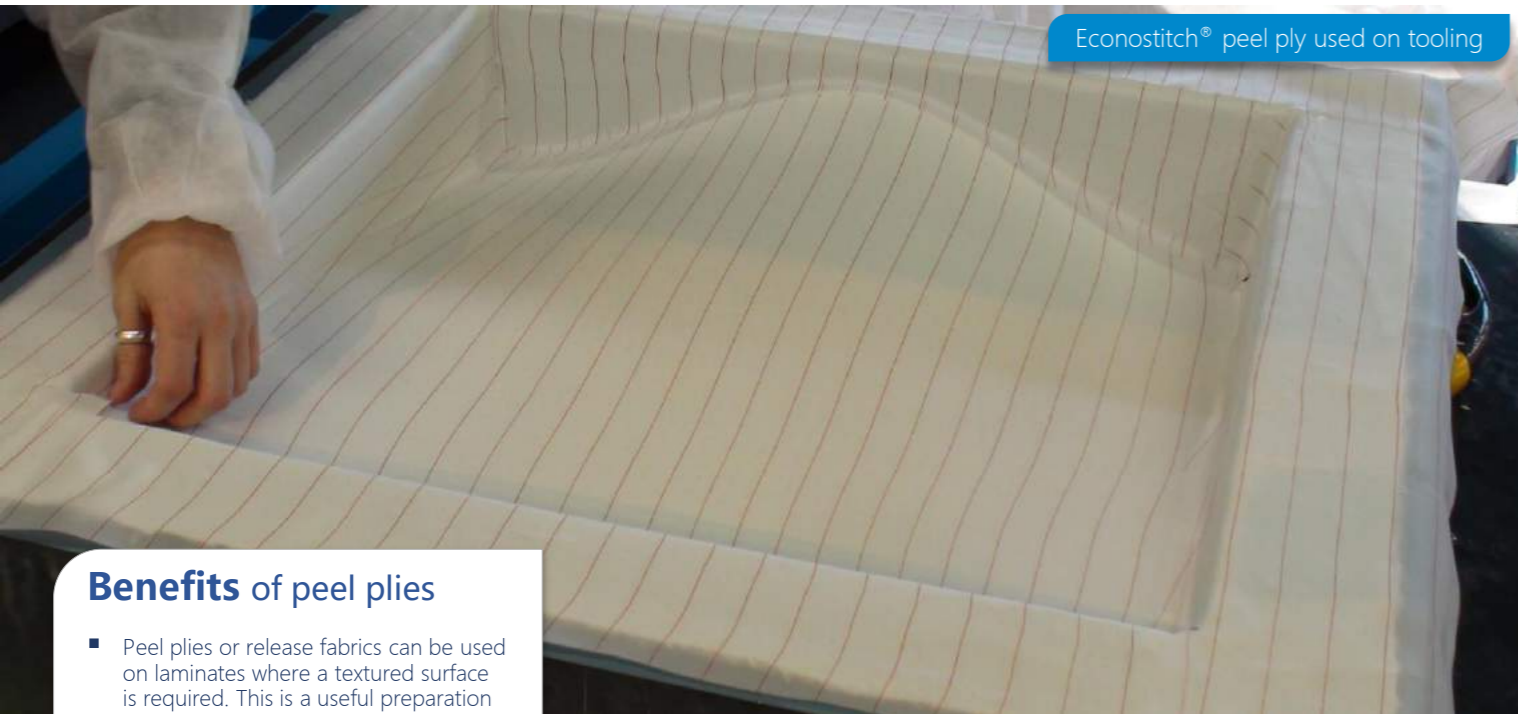
High Gloss Parts

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 fabric & Peel ply

Uncoated & coated release fabrics for paint & bonding preparation



Econostitch® peel ply used on tooling

## Benefits of peel plies

- 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.
- Peel plies or release fabrics can also be used where resin bleed out is required.

## Benefits of Airtech peel plies

- Airtech offers a wide range of peel plies and release fabrics for the full range of process requirements.
- Lighter weight peel plies and release fabrics for fine texture surfaces, ideal for paint preparation.
- Heavier weight fabrics for texture suitable for secondary bonding preparation.
- Coated peel ply which are easier to remove off more complex shape parts and heavier resin bleed out.
- PTFE coated fabrics for maximum release properties and highest strength and tear resistance.

Econostitch used over perforated release for compaction of prepregs.

## 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

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

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

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

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 coated fabric

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.



## Release Ease® 234 TFNP – PTFE coated fabric

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

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

## Airweave® N3

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.



## Airweave® N4

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.



## Airweave® N7

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.



### Benefits of breathers & bleeders

- Light weight high elongation breathers for complex shaped parts make sure pressure is applied without bridging to mould high quality parts.
- Heavier breathers work well in high pressure autoclave cures and provide protection over sharp mould details like bolt heads to avoid bag punctures.

Airweave® N4 used for debulking

Airweave® N10 used for curing



### Benefits of Airtech breathers

- Airtech manufactures a breather range of different weights and fibre types for low cost and high performance applications.
- Polyester breathers are good for bleeding excess resin, oven curing and standard autoclave cures.
- Nylon breathers have better breather performance in long, high temperature cures and are softer for complex shapes.

## Airweave® N10

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.



Airweave supplied in slit width rolls



Breathers supplied pre-cut for volume manufacturing

# Breathers & Bleeders

## Ultraweave® 406

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

Softness 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

#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.



Stretchflow 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

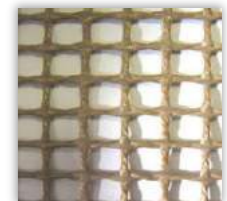
Description  
TFG 660 P2 is an open mesh PTFE coated woven glass fabric which has a plain weave structure. TFG 660 P2 has excellent chemical and heat resistance properties and can be used in a variety of composite applications.



### 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



Econotape 1 holding breather

## Benefits of 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.
- Choice of film type for applications keeps costs low and performance tailored to the process requirement.
- Tapes are useful to reduce process time and aid consistent production practise to achieve good part quality.

## Benefits of Airtech tapes

- Polyester tapes are an economical choice with excellent strength.
- Wrightlease tape is a self releasing fluoropolymer which can be used where resin release is required e.g. mould surface.
- Teflease tapes provide excellent release for all commonly used resin types.



Teflease MG2 covering master pattern

## 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	25mm x 66m
Description				2" x 72 yards	50mm x 66m

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	25mm x 66m
Description				2" x 72 yards	50mm x 66m

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	25mm x 33m
Description				2" x 36 yards	50mm x 33m

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	25mm x 33m
Description				2" x 36 yards	50mm x 33m

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	12mm x 33m
Description				5/8" x 36 yards	15mm x 33m

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

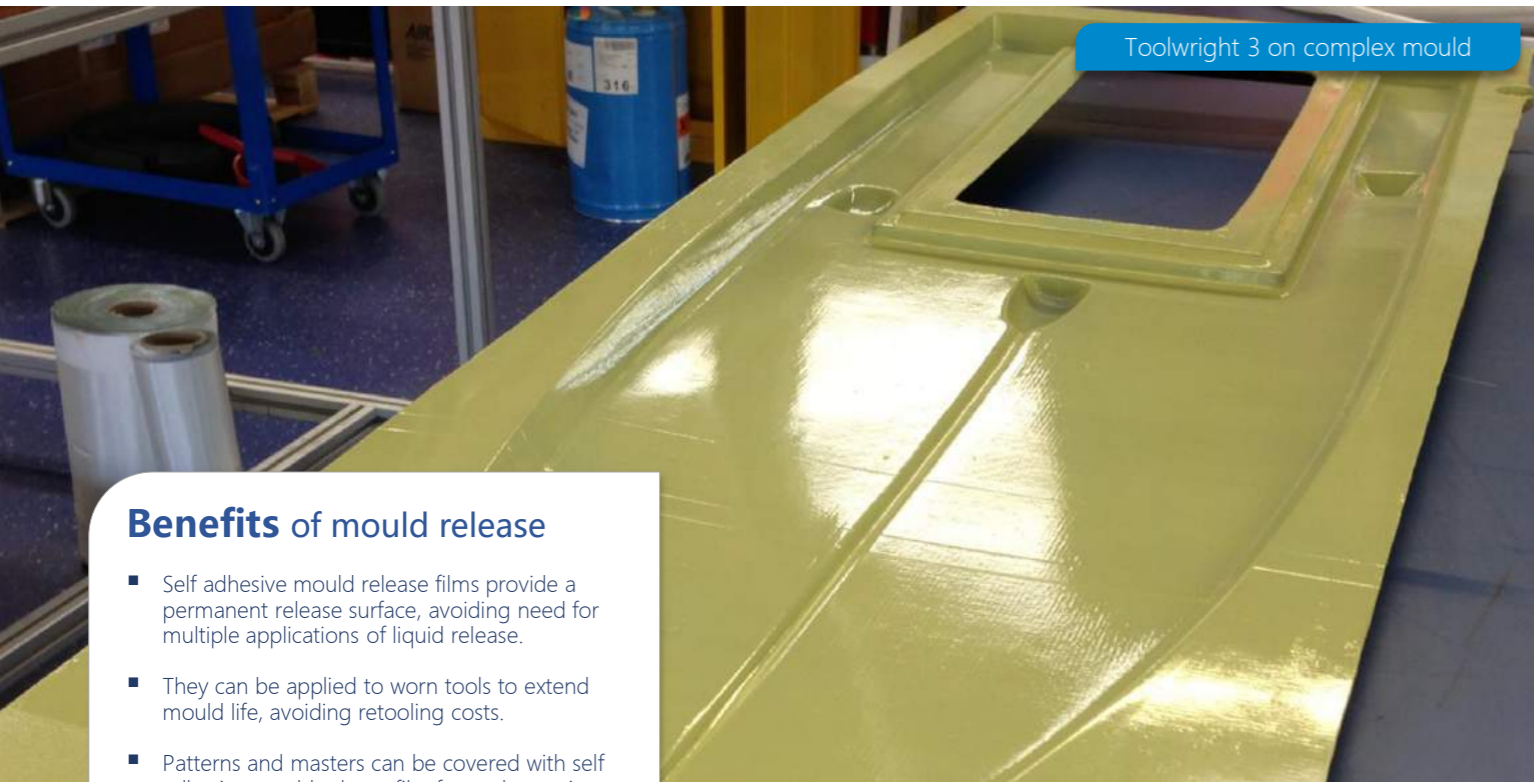
Maximum Use Temperature	Carrier Type	Adhesive Type	Colour	Roll Sizes (Inches)	Roll Sizes (Metric)
204°C	Polyester	Acrylic	White	1" x 36 yards	25mm x 33m
Description				2" x 36 yards	50mm x 33m

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



### Benefits of mould release

- Self adhesive mould release films provide a permanent release surface, avoiding need for multiple applications of liquid release.
- They can be applied to worn tools to extend mould life, avoiding retooling costs.
- Patterns and masters can be covered with self adhesive mould release film faster than paint and release liquid.

### Benefits of Airtech mould release

- Airtech manufactures self adhesive mould release films, ensuring excellent surface smoothness and even adhesive coating, for high quality parts.
- Airtech supplies fibre reinforced mould release for applications where flat hard wearing surfaces are required.
- Solid fluoropolymer mould release (with no fibre reinforcement) can be applied over curved and compound curved complex surfaces.



### Tooltec® A005

Maximum Use Temperature	Fabric	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	75µm PTFE coated fibreglass	Silicone	125µm		

#### Description

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.

1" x 36 yards	25mm x 33m
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

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.

1" x 36 yards	25mm x 33m
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

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.

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

Maximum Use Temperature	Fibre Type	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	Extruded Fluoropolymer	Silicone	125µm		

#### Description

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	Fibre Type	Adhesive	Total Thickness	Roll Sizes (Inches)	Roll Sizes (Metric)
260°C	PTFE	Silicone	165µm		

#### Description

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.

4" x 18 yards	100mm x 16,5m
39" x 18 yards	1,00m x 16,5m
48" x 18 yards	1,22m x 16,5m

- 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

Sealing vacuum bags to tools & sealing around tubing connections



VB650 sealant tape

### Benefits of sealant tapes

- 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.
- "pleats" can be made with tape to tailor the bag shape to fit the mould.

### Benefits of Airtech sealant tapes

- Good clean up performance for less time spent cleaning tools.
- Firm hold and resistance to shear for secure seals to avoid loss of vacuum and air shots into infused laminates.
- Low cost sealant tapes manufactured for economic debulking, oven cure & autoclave curing.
- Excellent tack level for secure adhesion to films to mould surfaces.
- Higher tack options for personal preference and colder workshops.




VB650 sealant taped vacuum bag

### 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.




Multiple pleats to seal shaped bag film

# Vacuum valves & quick connectors

For workshop, oven & autoclave

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		

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.

Ø 50 mm Base Diameter  
1/4" NPT threaded fitting



## Vac Valve 401C

Maximum Use Temperature	Material	Size
260°C	Cast aluminium	
Description		

Vac Valve 401 series 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.

Ø 63 mm Base Diameter  
1/4" Male NPT



## Premium Multi-Valve 407

Leak Free Longest Life

Maximum Use Temperature	Material	Size
260°C	Stainless steel	
Description		

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 3/4" ISO-B "Hansen" style quick-disconnects. The valve mechanism and O-ring seals can easily be replaced to extend life.

Ø 60 mm Base Diameter  
1/4 inch



## AQD 500TF Quick Disconnect Plugs & Sockets

Clean Room Essential

Maximum Use Temperature	Material	Size
260°C	Carbon steel	
Description		

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.

1/4" NPT



## Airflow 60R

Clean Room Essential

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

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	
Description			Up to 30m (100 feet)

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	
Description			Up to 30m (100 feet)

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.



Airflow 65R connected to VacView

# Leak detection & lay-up tools

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

## 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.



## 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



## 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 disconnects 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.



## Airsweep

Clean Room Essential

Description	Product Reference	Colour	Material	Length
Airsweep	Airsweep	White	HDPE	10cm
Airsweep R2 (with handle)	Airsweep R2 (with handle)	White	UHMW PE	11,5cm
Airsweep R3 (with handle)	Airsweep R3 (with handle)	Black	Nylon	11,5cm

Airsweep is a HDPE paddle, designed to help compact prepregs 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.



## 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 - Low Hazard 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 R3 and Shop Shears in use during BETA prepreg lay-up

# Pressure pads & accessories

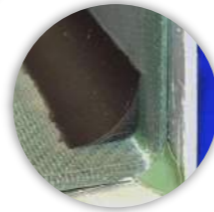
# Rubber intensifiers, shrink tapes, thermocouples & table cutting tops

## 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

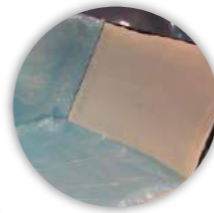


Pressure Strip is a butyl rubber tape used as an intensifier in corners where pressure is difficult to apply with only a vacuum bag. Pressure Strip is easily applied uncured on the prepreg layup and moulds to part shape during the cure cycle. Pressure Strip works from 120°C up to 230°C in autoclave or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

## Airflex

Maximum Use Temperature	Colour	Base Material	Roll Sizes
180°C	White	Uncured silicone	6mm x 0,45m x 1,55m (5 Kg / roll)

### 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 (Part A 3,63kg + Part B 0,45kg)

### Description



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	20,42kg kit (Part A 18,14kg + Part B 2,27kg)

### Description



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.

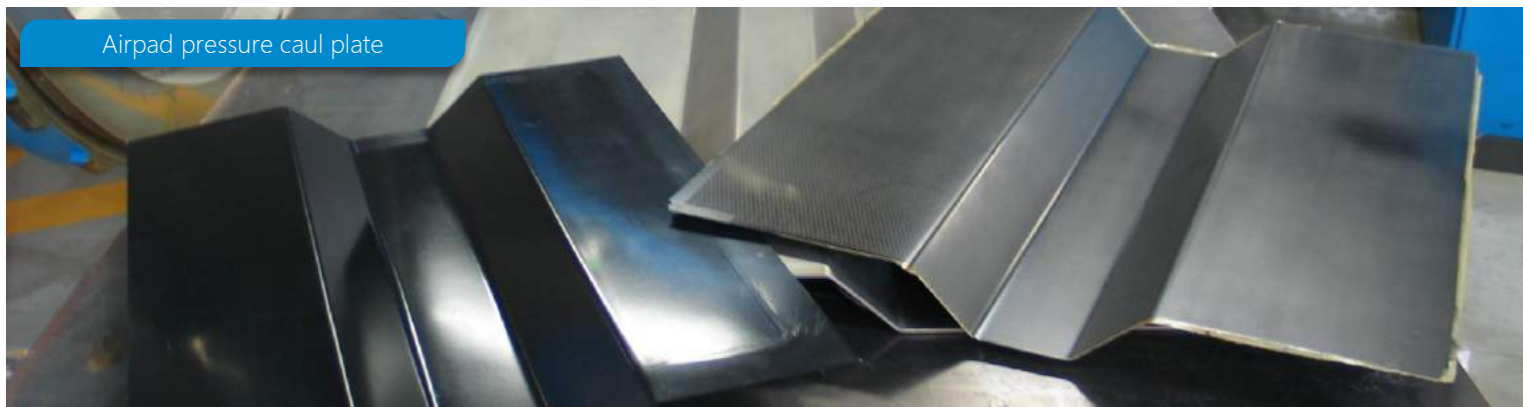
## Airpad

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



## A 575 & A 575 RC – Shrink tape

Maximum Use Temperature	Material	Starts to shrink	Sizes
204°C	Polyester	79°C	25mm x 91,4m 50mm x 91,4m

### Description

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
		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

### Description

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

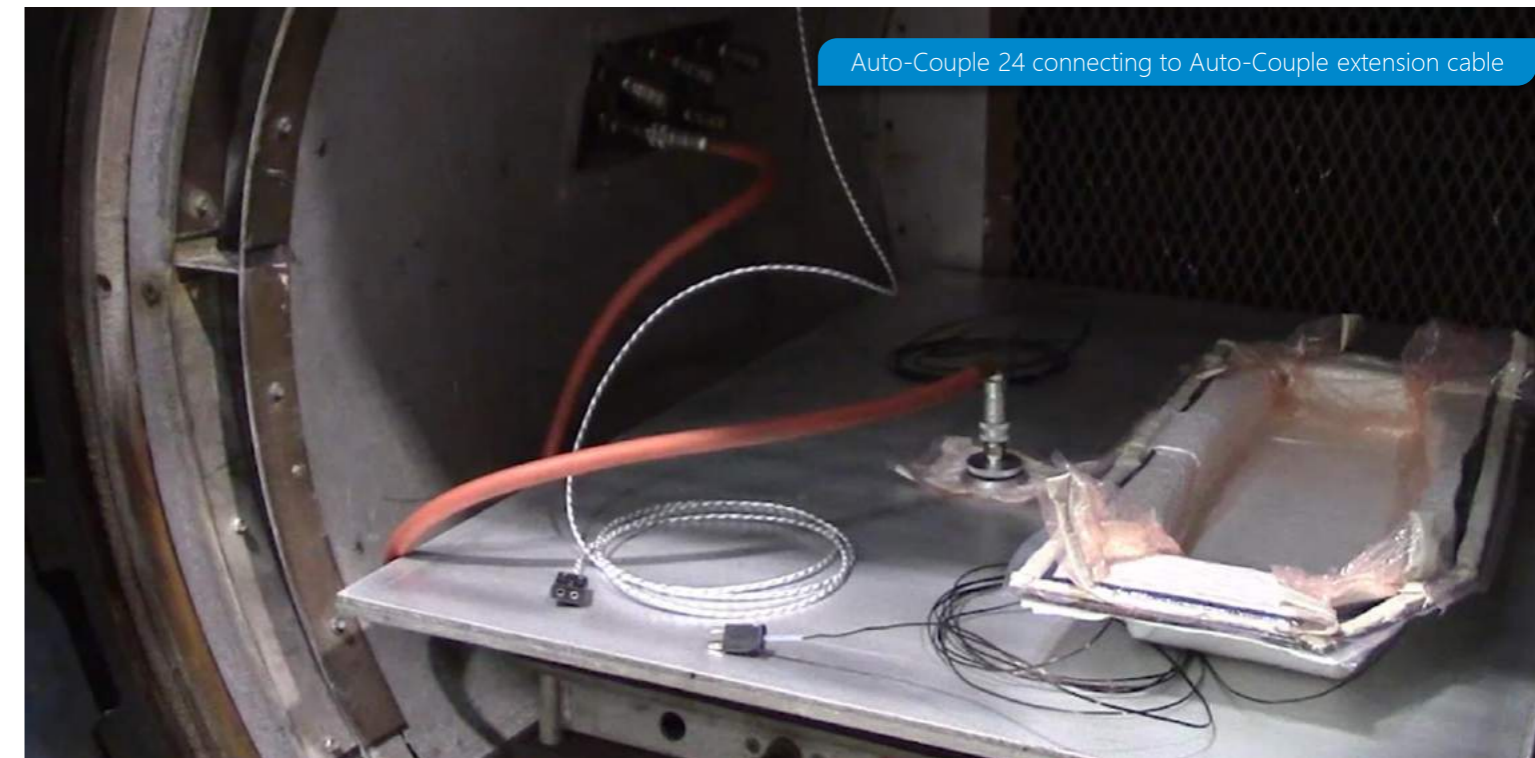
Colour	Material	Thickness	Sizes
Blue	Polyurethane	6mm	0,91m x 1,83m 1,22m x 2,44m 1,22m x 3,66m

### Description

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

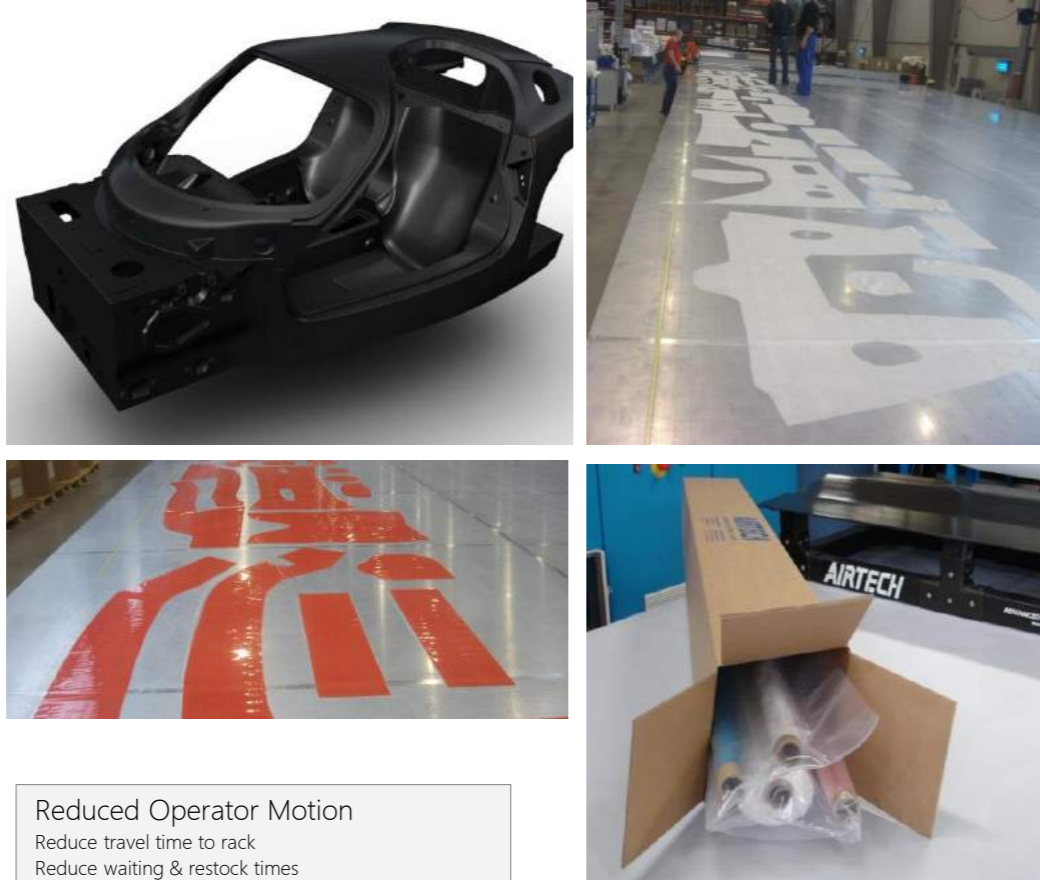


# Kitted & custom engineered products

# Combo-Tech

## Customisation of materials

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



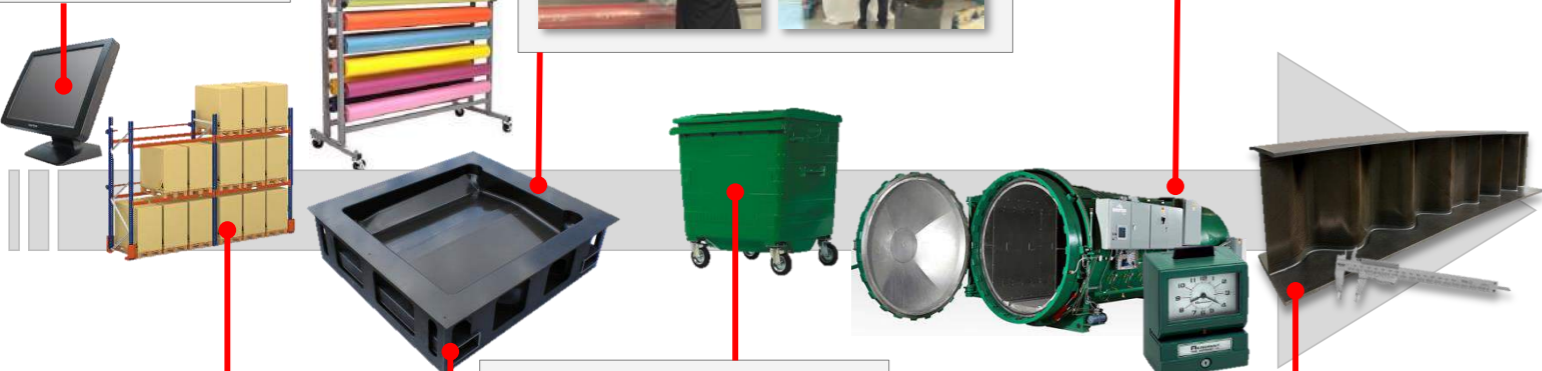
## BENEFITS

**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

**Simplify Purchasing**  
Include Consumables on BOM  
Predict usage more accurately

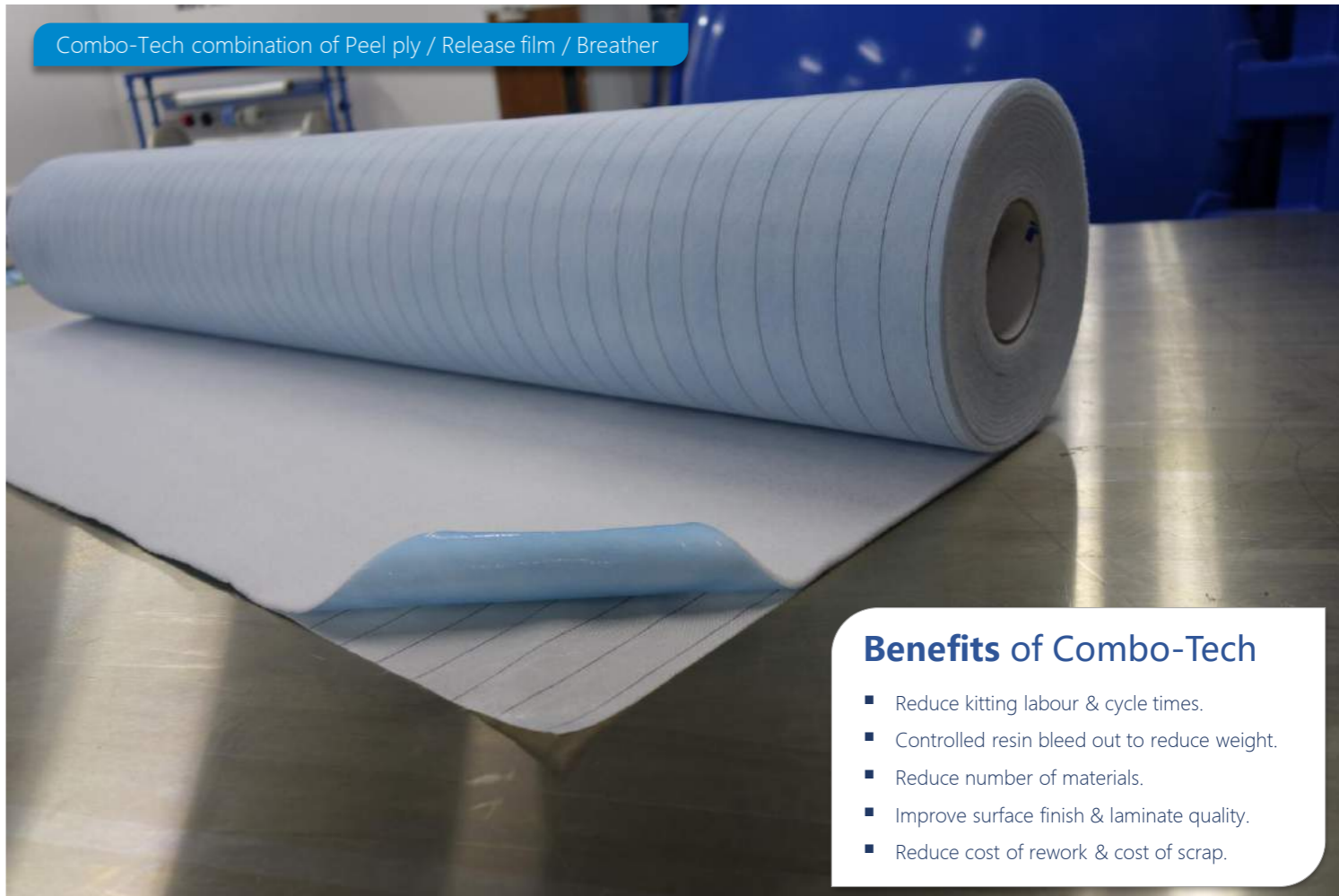


**Increase Stores Efficiency**  
Simplify stock control  
Introduce line feed  
Reduce overstocking space

**Reduce Touch Labour**  
Reduce time spent trimming  
Reduce cutting error waste  
Reduce bagging time

**Reduce Cost of Waste**  
Get Nesting efficiencies  
Reduce waste material  
Reduce waste disposal costs

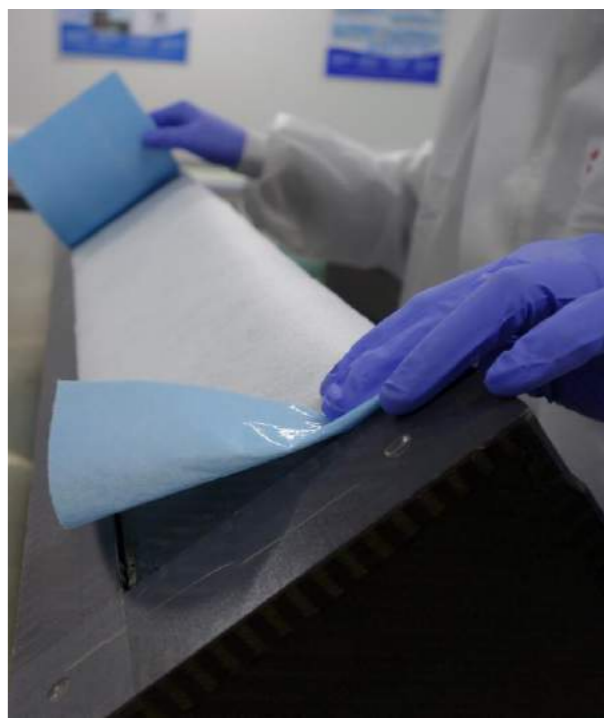
**Improve repeatability & Part quality**  
Establish bagging standards  
Reduce cross shift variations  
Reduce bagging error root cause part faults



- ### Benefits of Combo-Tech
- 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.



# Airtech Europe customer service

Dedicated to the needs of our customers



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



Customer Service  
Team Contacts



Development, Innovation &  
Continuous Improvement



Technical Support, Training Workshop & On-site Training Support



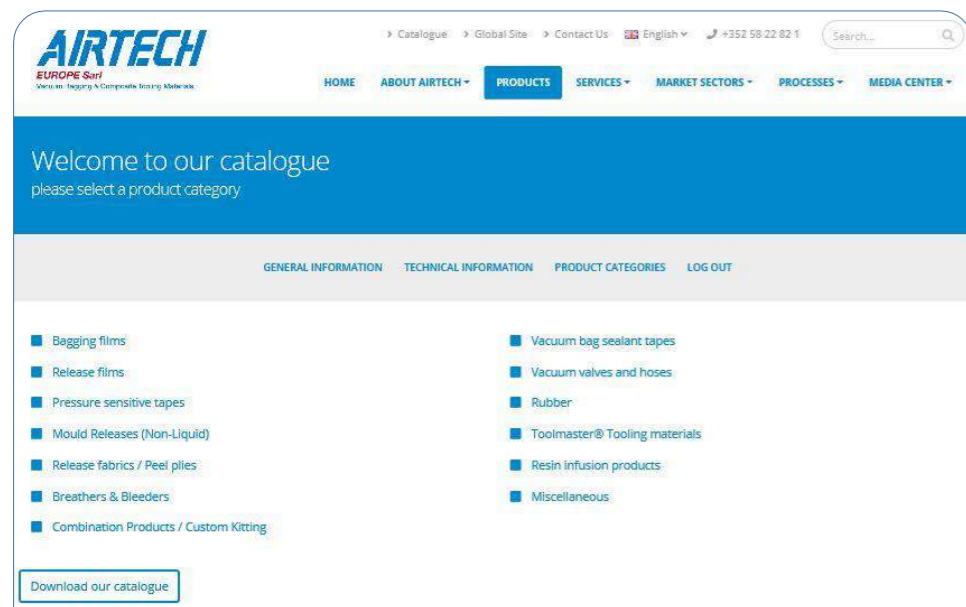
Quality System Accreditation



Sample Service



Recyclable Packaging



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



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

### Eagle MK-V Champ Car

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



Driver: Juan Fangio II  
Racing: 1996 Cart Season  
Chassis: #005  
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



## About Airtech Europe

Differdange, Luxembourg

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

- 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.
- 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.
- Thank you for your interest and feel free to contact us at any time.

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### Find Us

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