

## SECTION GUIDE

## MISCELLANEOUS

Name	Description	Page
Airdam 1	Rubber edge damming material	1
A 575 / A 575 RC	Polyester shrink tape	2
Dahlar® MLF 52	Fluorocarbon shrink tape	3
Permagrip	Prevents core migration during honeycomb sandwich panel fabrication	4
Auto-Couple 20, 24, 28 and EXT	Ready-to-use thermocouple assembly	5
Airsweep	HDPE paddle	6
Airsweep R2 & R3	Composite laminating tools for prepregs and fabrics	7
Shop shears	Light weight, strong shears available in 5 sizes	8
VacLeak LEQ-70	Standard ultrasonic vacuum leak detector	9
Durocast table top	Non-contaminating cutting surface	10

## Data Sheet

## AIRDAM 1

### Rubber edge damming material

#### DESCRIPTION

Airdam 1 is designed to dam resins in all types of layups. It is a high temperature rubber extrusion that remains firm up to 260 °C. Airdam 1 will release from metal or non-metal tools, hot or cold. Airdam 1 replaces expensive materials like rubber, cork and the double backed tape required to hold them down. Release films will seal to Airdam 1.

#### TECHNICAL DATA

Material type	Synthetic polymer
Colour	Yellow
Maximum use temperature	260 °C
Shelf life	18 months from date of manufacturing when stored at 22 °C

#### SIZES

Thickness	Width	Length	Packaging
4.76 mm	9.5 mm	7.60 m	40 rolls per case



#### NOTES

- > If release is a problem, simply cover the inside of the dam with our PS tape Teflease MG2. The Teflease MG2 will form to the Airdam 1.
- > Teflease MG2R can be used if a non-silicone adhesive is needed.

Last updated : 2018-10-22

Catalogue position : [Miscellaneous](#)

## Data Sheet

## A 575/ A 575 RC

### Polyester shrink tape

#### 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.

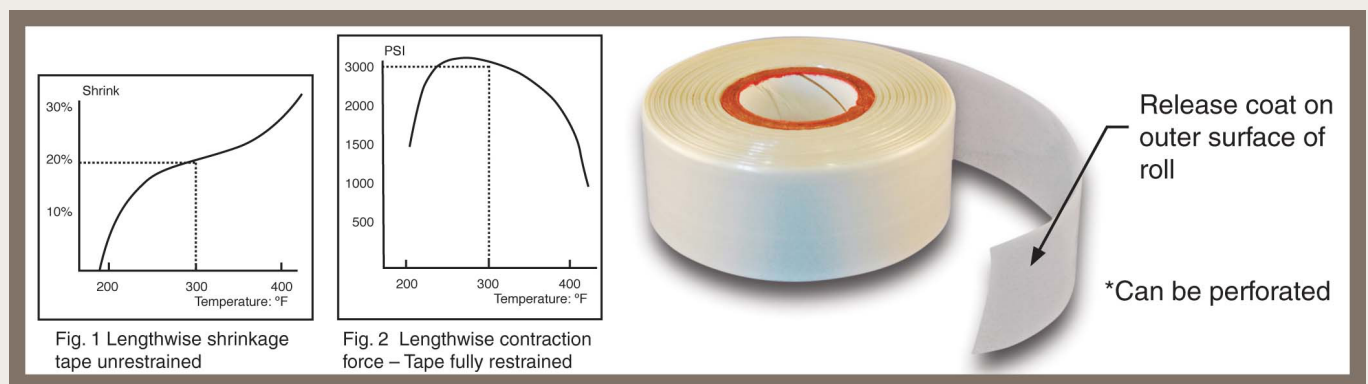
#### TECHNICAL DATA

Material type	Polyester
Colour	Clear
Nominal shrinkage (lengthwise) at 149 °C	20 %
Maximum shrink pressure (lengthwise)	17.2 MPa
Starts to shrink	79°C
Temperature range for practical use	93-204°C
Approximate time to reach full shrink after exposure to temperature	10 minutes
Shelf life	18 months from date of shipment

#### SIZES

Thickness	Width	Length
50.8 µm	1.90 cm	91.4 m
50.8 µm	2.54 cm	91.4 m
50.8 µm	3.17 cm	91.4 m
50.8 µm	5.08 cm	91.4 m
50.8 µm	6.35 cm	91.4 m

- Other sizes available on special request.



#### NOTES

- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

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Catalogue position : **Miscellaneous**

## Data Sheet

## DAHLAR® MLF 52

### Fluorocarbon shrink tape

#### DESCRIPTION

Dahlar® MLF 52 is a modified fluorocarbon shrink tape that has high elongation, eliminating wrinkles when applying to the laminate and will release from any resin system. The tape does not have any release coating but will exhibit natural release characteristics.

#### TECHNICAL DATA

Material type	Fluorocarbon
Colour	Blue
Nominal shrinkage (lengthwise) at 149 °C	20 %
Maximum shrink pressure (lengthwise)	9.3 MPa
Starts to shrink	32 °C
Temperature range for practical use	93-232 °C
Approximate time to reach full shrink after exposure to temperature	1 minutes
Shelf life	18 months from date of shipment when stored at 22 °C

#### SIZES

Thickness	Width	Length
50.8 µm	1.90 cm	91.4 m
50.8 µm	2.54 cm	91.4 m
50.8 µm	3.17 cm	91.4 m
50.8 µm	5.08 cm	91.4 m
50.8 µm	6.35 cm	91.4 m



#### NOTES

Other sizes available on special request.

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Catalogue position : **Miscellaneous**

## Data Sheet

## PERMAGRIP

Prevents core migration during honeycomb sandwich panel fabrication

### DESCRIPTION

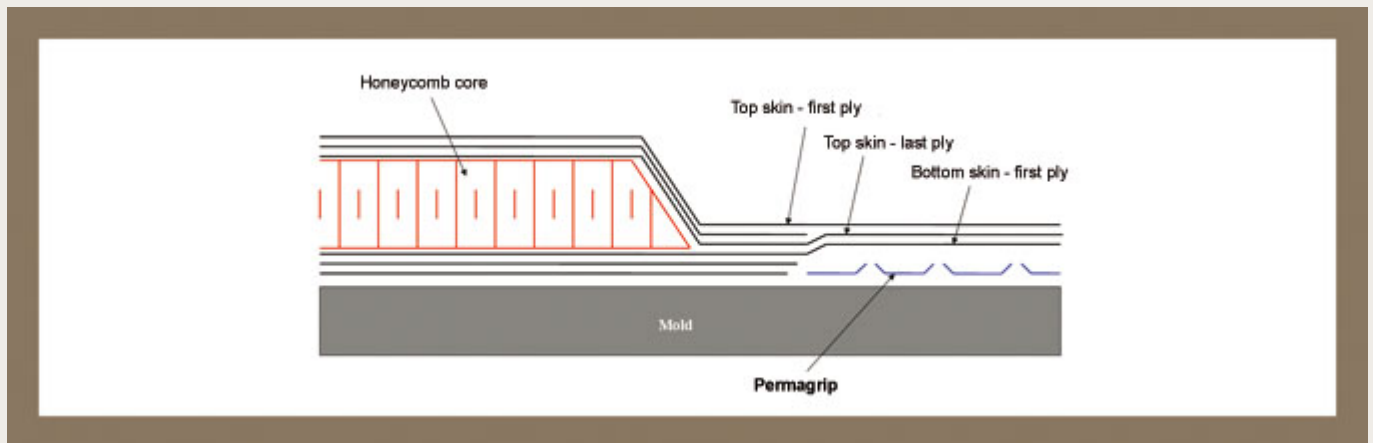
Permagrip is applied around the mould periphery in the excess part area. Full skin plies are extended over the Permagrip and become anchored in place during autoclave processing. This method of fabrication will greatly inhibit and in most cases eliminate core movement.

### TECHNICAL DATA

Material type	Perforated aluminum sheet
Recommended width:	
Core height (h)	Permagrip Width
$h \leq 19 \text{ mm}$	5.1 cm
$20 \text{ mm} < h < 38 \text{ mm}$	10.2 cm
$h \geq 38 \text{ mm}$	15.2 cm

### SIZES

Thickness	Width	Length
0.38 mm	5.1 cm	1.22 m
0.38 mm	10.2 cm	1.22 m
0.38 mm	15.2 cm	1.22 m



### APPLICATION

Preparation for bonding to the mould:

Abrade and solvent wipe the bond surface of the mould and the Permagrip. All mould release and oxidation must be removed from these surfaces.

Bonding (option 1):

Apply silicone primer to both surfaces per manufacturer's instructions and bond in place with RTV adhesive.

Bonding (option 2):

Apply high temperature film adhesive, paste adhesive or toolmaster prepreg to the bond surface then vacuum bag and cure.

## Data Sheet

# AUTO-COUPLE 20, 24, 28 AND EXT

Ready-to-use thermocouple assembly

### 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.

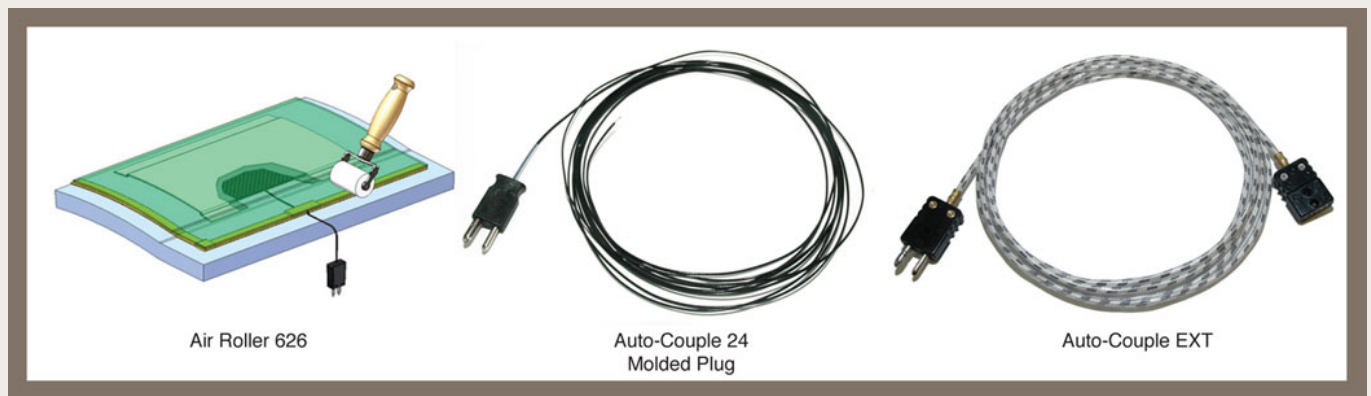
Auto-Couple EXT thermocouple extension wires bridge the long runs between part thermal couples and jack panels in the autoclave. Auto-Couple EXT features a rugged construction that allows for reuse in the autoclave.

### TECHNICAL DATA

Material type conductors	Iron/ Constantan
Material type connector	Type J moulded male connector and TIG-welded hot junction
Material type insulation Auto Couple 20, 24, 28	Fluorocarbon single shot extrusion
Material type insulation Auto Couple EXT	Braided fibreglass w/clear PFA resin outer jacket
Maximum use temperature	246 °C
Specification	Meets Mil STD-105, Mil 1-45208A, ASTM E230, ANSI-MC 96,1, Mil 45662A, BAC 5621
Calibration	+/- 1.1 °C or 0.4 % of curing temperature, whichever is higher

### SIZES

Product reference	Gauge	Diameter	Length
Auto-Couple 20	20	0.81 mm	4.57 m / 9.14 m
Auto-Couple 24	24	0.51 mm	4.57 m / 9.14 m
Auto-Couple 28	28	0.32 mm	4.57 m / 9.14 m
Auto-Couple EXT	-	-	3 m/ 6.1m / 9.1 m



### NOTES

- > Other styles and lengths available on request.
- > Minimum order quantity may apply to non-stock items.
- > Auto-Couple EXT is available in male to female, male to male and female to female J type configuration.
- > Type K wire available on special order.

Last updated : 2016-07-18

Catalogue position : **Miscellaneous**

## Data Sheet

## AIRSWEEP

### HDPE paddle

#### DESCRIPTION

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 center for finger comfort which also helps in applying pressure.

#### TECHNICAL DATA

Material type  
Colour

HDPE  
White

#### SIZES

Thickness	Width	Length	Packaging
3 mm	7 cm	10 cm	25 pieces per case



#### NOTES

Minimum order quantity: 25 pieces.

Last updated : 2016-11-22

Catalogue position : [Miscellaneous](#)

## Data Sheet

## AIRSWEEP R2 & R3

### Composite laminating tools for prepregs and fabrics

#### DESCRIPTION

Airsweep R2 & R3 are composite laminating tools for placement of prepregs and fabrics onto moulds. Airsweep R2 & R3 have been ergonomically designed to fit the hand more comfortably, so even pressure can be applied into sharp corners easily with reduced operator fatigue. These products are manufactured from abrasion resistant non-contaminating UHMW PE and nylon.

#### BENEFITS

- Apply even pressure accurately to tight corners to eliminate fabric bridging and avoid part rework.
- Handle design applies palm pressure, reducing finger fatigue.
- Non-contaminating material avoids FOD in layups.

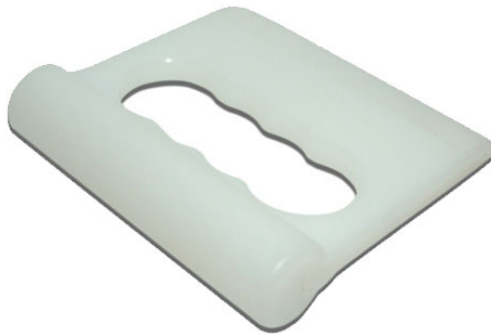
#### TECHNICAL DATA

Material type

R2: UHMW PE, Natural colour  
R3: Nylon, Black colour

#### SIZES

Product	Thickness	Length	Grip Diameter
R2 & R3	9.2 mm	115 mm	25 mm



**Airsweep R2**



**Airsweep R3**

#### NOTES

- Minimum order quantity: 1 each
- The UHMW PE material in Airsweep R2 conforms to ASTM D4020-11.
- The nylon 6/6 material in Airsweep R3 conforms to ASTM D4066 and ASTM D5989.

Last updated : 2018-10-25

Catalogue position : [Miscellaneous](#)

## Data Sheet

## SHOP SHEARS

Light weight, strong shears available in 5 sizes

### DESCRIPTION

Our Shop shears are lightweight (1/2 the weight of other shears) and stronger than most all metal shears. The Shop shears have larger handles to reduce stress and thicker blades for heavy duty cutting. Serrated edges are available at an additional charge. Fabricated from 440C stainless steel throughout handles for strength, Shop shears are one of the hardest and smoothest cutting shears available, with approx. 60 HRC, hardened throughout.

Other advantages are: 45 ° honed cutting edge, soft santoprene inserts to cushion your hands and double-locking nuts for strength.

### SIZES

Product reference	Type	Length	Weight
SS-7205-8	Straight shears	20 cm / 8"	150 g
SS-7230-9	Straight shears	23 cm / 9"	170 g
SS-7250-10	Straight shears	25 cm / 10"	210 g
SS-7280-11	Straight shears	28 cm / 11"	248 g
SS-7300-12	Straight shears	31 cm / 12"	306 g



### NOTES

- > Resharpen smooth edge only. Do not resharpen serrated edge.
- > Shop shears sharpener available as optional items.

Last updated : 2015-07-09

Catalogue position : **Miscellaneous**

## Data Sheet

## VACLEAK LEQ-70

### Standard ultrasonic vacuum leak detector

#### ■ 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 detect leaks faster than ever before.

#### ■ TECHNICAL DATA

Equipment components	Receiver, headphones, hollow probe and carrying case
Power source	9V battery
Frequency response	38-42 kHz
Display	Ten element bar graph
Battery life	15 hours continuous

#### ■ CARRYING CASE DIMENSIONS

Thickness	Width	Length	Weight
7 cm	22 cm	30 cm	0.7 Kg

#### ■ OPERATION INSTRUCTIONS

- Plug in headset and install the hollow probe into the hole in the receiver.
- To Turn On: Hold the On/Off button for 3 seconds.
- Adjust sound level on headset and sensitivity level on unit.
- Slowly pass the probe over suspected area until leak is detected.
- To Turn Off: Hold On/Off button for 3 seconds.



Last updated : 2018-03-13

Catalogue position : **Miscellaneous**

## Data Sheet

## DUROCAST TABLE TOP

Non-contaminating cutting surface

### DESCRIPTION

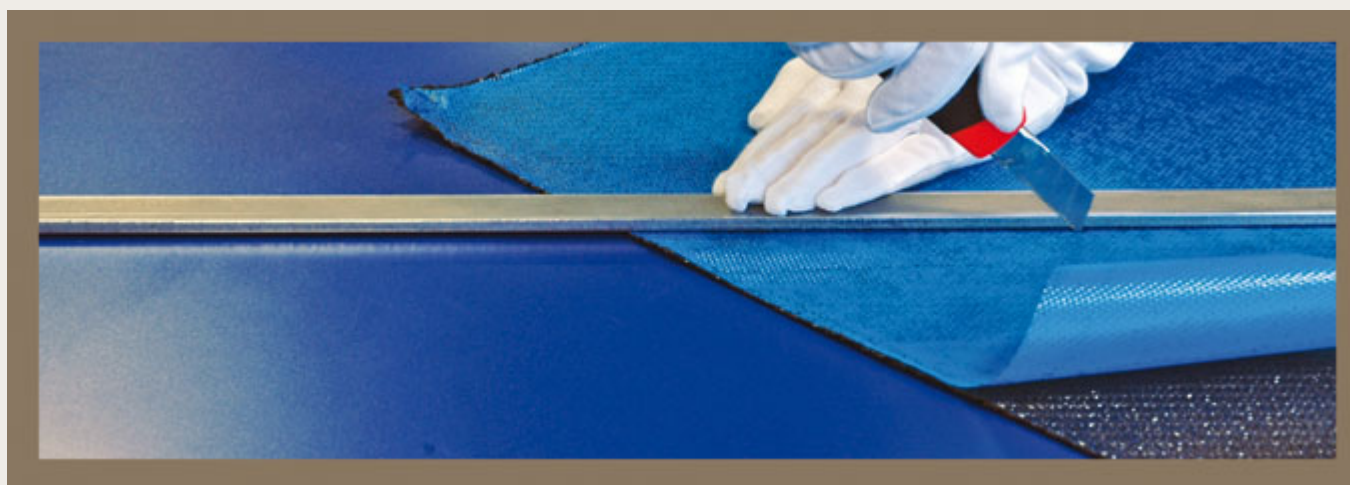
Durocast table tops are manufactured using the highest grade urethane available. The cutting surfaces always provide a smooth, non-contaminated working surface. Our standard size, colour and gauge table tops can be certified to be silicone free. We recommend our Airhold 10 CBS for holding Durocast to the table.

### TECHNICAL DATA

Material type	Polyurethane
Colour	Blue
Hardness	90 +/- 4 Shore A

### SIZES

Thickness	Width	Length
6.22 mm	0.91 m	1.83 m
6.22 mm	1.22 m	2.44 m
6.22 mm	1.22 m	3.66 m



### NOTES

- > Other sizes, durometers and colours available on special order.
- > Table tops are shipped in a coil held by pressure sensitive tape. Table tops should not be cleaned with MEK. They can be cleaned with mild detergent wash.

Last updated : 2016-02-15

Catalogue position : **Miscellaneous**