AEROVAC
COMPOSITES ONE

PRODUCT CATALOG

NORTH AMERICA

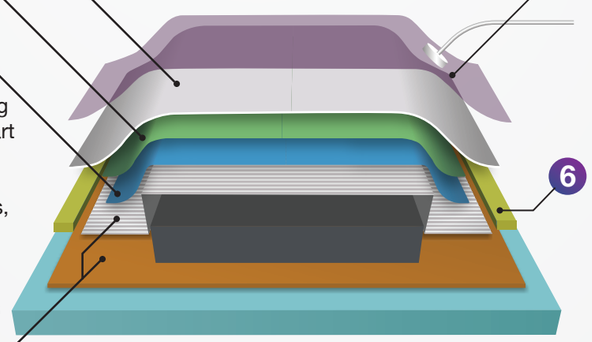
Introduction

Composite manufacturing involves a diverse range of processes, ranging from wet lamination and RT resin infusion to high temperature and pressure curing of prepreg materials in an autoclave. Each manufacturing process is tailored to meet specific performance requirements. Our materials are engineered to support these critical steps, ensuring quality, efficiency, and reliability throughout the production process.

These advanced solutions serve a wide array of industries, such as Aerospace, Automotive, Wind Energy, Marine, Sports and Leisure, and Infrastructure. Each sector relies on innovative materials to meet its unique challenges, from lightweight construction to durability in demanding environments.

In this catalog, we present an overview of the key product categories essential for composite processing:

COMPOSITE PROCESSING MATERIALS



3 Flow Media/ Combined Products

Flow media enhance resin distribution during infusion, while combined products integrate multiple functions, simplifying the overall process and improving efficiency.

2 Release Film

The primary function of the release film in composite manufacturing is to ensure the cured part is easily released from the process materials pack. In some processes, perforated release films are used, which help control resin flow during infusion and allow gases to escape through the perforations, ensuring optimal curing and surface quality.

1 Peel Ply/ Release Fabric

Textiles designed to create a textured surface or ensure clean release from resin systems, making post-processing easier and preventing resin adhesion.

4 Breather Fabric

Breather fabrics provide a pathway for gases, connecting the curing laminate to the vacuum manifold. They help maintain even pressure distribution during vacuum bagging, ensuring optimal laminate quality and uniformity. Additionally, they support consistent airflow, even under elevated temperatures and pressures, throughout the curing process.

8 Feed and Vacuum Systems

Integrated systems that ensure efficient resin delivery and vacuum control, essential for achieving optimal material infusion and curing throughout the production process.

9 Tubing & Spiral Wrap

These components ensure secure hose connections and protect against damage, vital for maintaining the integrity of resin infusion processes.

5 Vacuum Bagging Film

Vacuum bags are used to create an air barrier and maintain consistent vacuum pressure during the manufacturing process. They ensure uniform pressure distribution and help achieve high-quality results. Different films are available, designed to withstand varying temperatures and pressures, depending on the curing requirements.

6 Tape

Sealant tapes play a critical role in creating airtight seals during vacuum bagging, offering easy application and reliable performance in high-pressure environments.

7 Ancillaries

This category includes connectors, small equipment, and other accessories that support composite processing, enhancing the efficiency and functionality of the entire operation.

By combining our expertise in composite materials with a deep understanding of industry needs, we deliver solutions that drive performance, efficiency, and innovation across diverse applications.

1 Peel Ply & Release Fabrics

PEEL PLY APPLICATION SUMMARY

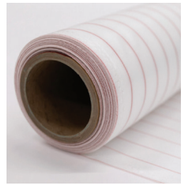
PRODUCT	MATERIAL	UPPER USE TEMPERATURE °C/°F	FABRIC WEIGHT GSM / OZ/YD²	ROUGHNESS	EASE OF REMOVAL	APPROX. COST / M2
A100PS	Nylon 66	204 / 400	85 / 2.5	+++	++	$
A100PS Eco	bio-sourced Nylon	204 / 400	85 / 2.5	+++	+++	$
A100PS PA6	Nylon 6	204 / 400	85 / 2.5	+++	+++	$-
B100	Nylon 66	204 / 400	58/1.7	+	++	$$
60001/60002	Polyester	204 / 400	85 / 2.5	+++	+	$$$
51789 SRB	Nylon with release coating	232 / 450	62.7 / 1.85	++	++++	$$$$
B4444	Nylon 66 with release coating	204 / 400	60/1.77	+	++++	$$$$

RELEASE FABRIC APPLICATION SUMMARY

PRODUCT	MATERIAL	UPPER USE TEMPERATURE °C/°F	THICKNESS	POROUS	EASE OF REMOVAL	APPROX. COST / M2
200TFP	Fiberglass coated PTFE - Porous	290 / 550	3 mil	Yes	++++	$
200TFNP	Fiberglass coated PTFE - Non Porous	290 / 550	3 mil	No	++++	$$
Toolcoat 805 - A	Fiberglass coated PTFE + Acrylic adhesive	204 / 400	5 mil	No	++++	$$$
Toolcoat 805 - S	Fiberglass coated PTFE + Silicone adhesive	290 / 550	5 mil	No	++++	$$$$
Toolcoat 807 - A	Fiberglass coated PTFE + Acrylic adhesive	204 / 400	7 mil	No	++++	$$$$
Toolcoat 807 - S	Fiberglass coated PTFE + Silicone adhesive	290 / 550	7mil	No	++++	$$$$$

**The price comparison in the table is not compared with other product classes.*

Peel Ply & Release Fabrics



Narrow width hot knife slitting is available.

A100PS and A100PS ECO

A100PS is a Nylon 66 peel ply available in natural or natural with red stripes for better visibility during removal. It strips cleanly from cured parts and is often supplied with red tracer yarn to prevent residue. Compatible with epoxy resin for strong adhesive bonding, its performance with prepreg and polyester resin may vary and should be tested. A100PS ECO offers similar performance, made from sustainable bio-sourced materials.

Application: Infusion and oven cure
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	CONSTRUCTION	TEMP.	WEIGHT
676141	PP-A100PSI-WHT-85-1524-274 NA 2.5 OZ 60”X300YD RED STRIP	Nylon with red tracer-course weave	400 F	2.5 OZ / SY
682894	AUS PP-A100PSI-WHT-85-102-274	Nylon with red tracer-course weave	400 F / 204 C	2.5 OZ / SY
835592	PP-A100ECOPSI-WHT-85-1524-274-NA	Nylon with red tracer-course weave	400 F / 204 C	2.5 OZ / SY

Narrow width hot knife slitting is available.

B100

B100 is a premium Nylon 66 peel ply weighing 1.7 oz/square yard, offering a fine surface finish on composite parts. It is compatible with epoxy resin, but performance with polyester resin requires testing due to potential degradation from acidic components in phenolic resin or prepreg systems.

Application: Infusion, oven and autoclave cure
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	CONSTRUCTION	TEMP.	WEIGHT
676138	PP-B100-NAT-60-1524-91-NA 1.77 OZ 60” X 300’	NYLON - FINE WEAVE	400 F / 204 C	1.7 OZ / SY

Narrow width hot knife slitting is available.

A100PS-PA6

A100PS is a Nylon 6 peel ply available natural with red stripes for better visibility during removal. Compatible with epoxy resin for strong adhesive bonding, its performance with prepreg and polyester resin may vary and should be tested.

Application: Infusion and oven cure
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	CONSTRUCTION	TEMP.	WEIGHT
846516	PP-A100PS/PA6-WHT-85-1524-274	Nylon 6 with red tracer-course weave	400 F	2.5 OZ / SY

Peel Ply & Release Fabrics

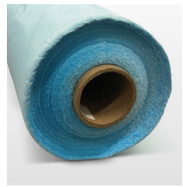
Narrow width hot knife slitting is available.

60001 and 60002

Code 60001 is a 100% polyester fiber fabric designed for vacuum bag lay-up composites and metal-to-metal bonding, melting at approximately 480°F (249°C) and resistant to phenolic resin degradation. It leaves a medium surface impression for priming and secondary bonding, available in slit widths of 58 inches or less. Code 60002 is similar, with the addition of black identification stripes for easy visibility.

Application: Oven and autoclave cure cycles
Resin: Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	CONSTRUCTION	TEMP.	WEIGHT
678862	PP-60001-NAT-85-1524-274 NA 2.5OZ 60” X 900’	Polyester - Medium finish	400 F	2.5 OZ / SY
232300	60002-060 47" NATURAL PEEL PLY NA	Polyester - Medium finish	400 F	2.5 OZ / SY



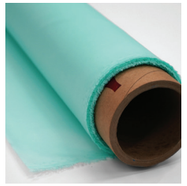
Narrow width hot knife slitting is available.

51789 and 51789 SRB

51789 is a 100% nylon 6,6 fiber fabric designed for vacuum bag lay-up composites and metal-to-metal bonding, melting at approximately 480°F (249°C). It leaves a fine surface impression for priming and secondary bonding but is not recommended for phenolic systems. 51789 SRB features an inert, heat-stabilized, cross-linked polymer finish, known as Super Release Blue, for enhanced performance and easier release.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	CONSTRUCTION	TEMP.	WEIGHT
678879	PP-51789-NAT-63-1524-274-NA	Nylon - fine weave	450 F	1.85 OZ / SY
676394	PP-51789SRB-BLU-63-1524-91	Nylon - fine weave w/ release coating	450 F	1.85 OZ / SY



Narrow width hot knife slitting is available.

B4444

B4444 is a silicone-coated lightweight nylon peel ply with a gram weight of 1.7 oz/square yard. The heat-cured silicone coating provides excellent release properties, ensuring easy removal from cured laminates. The coating imparts a green color to the fabric and is fully polymerized to minimize the potential for slight transfer onto the component.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	CONSTRUCTION	TEMP.	WEIGHT
676142	PR-B4444-GRN-60-1524-91 SIL-P-NA 1.75 OZ 60” X 300’	SILICONE COATED NYLON	400 F / 204 C	1.77 OZ / SY

Peel Ply & Release Fabrics

Narrow width hot knife slitting is available.

200TFP and 200TFNP

200TFP or 200TFNP is a woven glass fiber fabric coated with PTFE (Polytetrafluoroethylene), distinguished by one being porous (200TFP) and the other non-porous (200TFNP). These fabrics are designed for applications up to 550°F and ensure effortless release of cured laminates. By preventing adhesion between the composite material and the mold surface, they enable clean removal without damage. Additionally, they contribute to achieving desired surface textures or finishes in the final product. The porosity of 200TFP facilitates the evacuation of excess resin and volatiles during the manufacturing process.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	CONSTRUCTION	TEMP.	WEIGHT
678144	PR-200TFNP-TAN-76-965-91 TFE-N-NA 2.25 OZ 38" X 100 YD	PTFE COATED PLAIN WEAVE FIBERGLASS	550 F / 290 C	1.8 - 2.1 OZ / SY
676145	PR-200TFP-BRN-76-1270-91 TFE-P-NA 2.25 OZ 50 X 300'	PTFE COATED PLAIN WEAVE FIBERGLASS	550 F / 290 C	1.8 - 2.1 OZ / SY

Narrow width hot knife slitting is available.

TOOLCOAT (TC805 / TC807)

Toolcoat is a self-adhesive tool release film made of fiberglass coated with non-porous PTFE, designed to facilitate the separation of composite parts from molds or tools. It enables easy removal of cured parts without surface damage, simplifies application, and reduces labor. Inert to most chemicals and environmental factors, it comes in thicknesses of 805 S/A at 0.005 inches and 807 S/A at 0.007 inches. Both variants offer silicone and acrylic adhesives, supporting different maximum temperatures.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	ADHESIVE TYPE	TEMP.	TOTAL THICKNESS
232933	PR-TC805A-BRN-127-914-16 TFE-N-AC 3.75 OZ X 36" X 52'	Acrylic Adhesive on PTFE Coated Glass	400 F / 204 C	.005"
232930	PR-TC807A-BRN-178-914-16.5 TFE-N-AC 5.25 OZ X 36" X 54'	Acrylic Adhesive on PTFE Coated Glass	400 F / 204 C	.007"
698255	PR-TC805S-BRN-127-914-33 TFE-N-SL 3.75 OZ 36" X 108'	Silicone Adhesive on PTFE Coated Glass	550 F / 290 C	.005"
232933	PR-TC807S-BRN-178-914.16.5 TFE-N-SL 5.25 OZ 36" X 54'	Silicone Adhesive on PTFE Coated Glass	550 F / 290 C	.007"

2

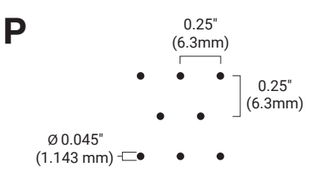
Release Film

RELEASE FILM APPLICATION SUMMARY

PRODUCT	MATERIAL	UPPER USE TEMPERATURE °C/°F	TENSILE STRENGTH MPA	ELONGATION %	CONFORM-ABILITY	RELEASE PERFOR-MANCE	APPROX. COST/ M2	APPLICATION	MARKET	RESIN
A2300	PP	150°C/302°F	TD:5801 / MD:9427 PSI	TD:800 / MD:500 %	++++	+	$$	Infusion, oven and autoclave cure cycles	All	Polyester, Vinyl Ester, Epoxy, Phenolic and BMI
A2400	PE	120°C/248°F	6526 PSI	560%	++++	++	$	Infusion	Marine and Wind	Polyester, Vinyl Ester and Epoxy
A2500	PMP	204/ 400	4351 PSI	285%	+	+++	$$	Autoclave cure cycles	Aerospace, Defense	Polyester, Vinyl Ester, Epoxy, Phenolic and BMI
A5000	FEP	260 / 500	3500 PSI	300%	++++	++++	$$$$	Autoclave cure cycles	Aerospace, Defense	Polyester, Vinyl Ester, Epoxy, Phenolic and BMI
A6200	ETFE	232 / 450	TD:6000 / MD:10000 PSI	350%	+++	+++	$$$	Autoclave cure cycles	Aerospace, Defense	Polyester, Vinyl Ester, Epoxy, Phenolic and BMI
MR1	PTFE	316 / 600	4300 PSI	400%	+++++	+++++	$$$$$	Autoclave cure cycles	Auto, Aerospace, Defense	Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

COMMON PATTERNS

P



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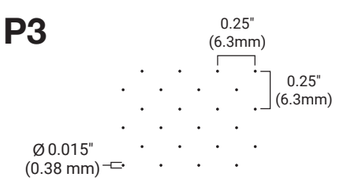

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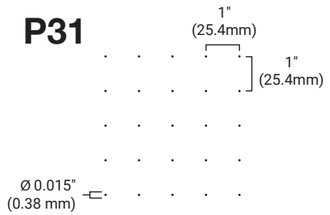

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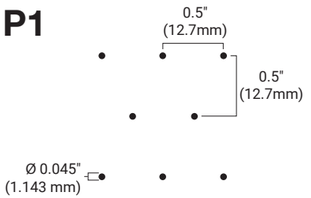
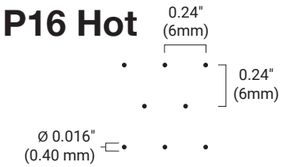
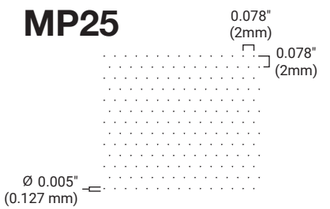


P16 Hot



MP25



Other perforations are also available. Please contact the technical team for further support.

Release Film

A2300

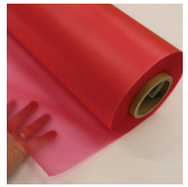
A2300 is a cast co-extruded polypropylene based film specifically developed for release applications in composite infusions. Additionally, in the wind blade repair market, A2300 non perforated works as a “bagging film” primarily utilized for small repairs using the dry lay-up process.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy and Phenolic

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
676355	RF-A2300-ORG-30-1524-305-P3-SHT	1 mil	SHT	60	1000
676346	RF-A2300-ORG-30-1600-305-NP-NP-FNS	1 mil	SHT	63	1000

Available in 1 and 2 mil thicknesses up to 78 in. wide. Custom narrow width slitting is available to 2 in. minimum. Available with a range of perforation patterns.

COLOR	
ORANGE	
TENSILE TRANSVERSE	TENSILE MACHINE DIRECTION
5801 PSI	9427 PSI
ELONGATION	MAX USE TEMP.
500% / 800%	302F / 150 C



A2400

A2400 is a blown co-extruded polyethylene-based film specifically developed for release applications in composite infusions.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
685028	RF-A2400-ORG-25-1550-500-HOT-P16-FNS-SHT	1 mil	SHT	61	1,640

Available in 1 and 2 mil thicknesses up to 78” wide. Custom narrow width slitting is available to 2” minimum. Available with a range of perforation patterns.

COLOR	
ORANGE & RED	
TENSILE TRANSVERSE	TENSILE MACHINE DIRECTION
6528 PSI	6528 PS
ELONGATION	MAX USE TEMP.
560%	248 F / 120 C

A2500

A2500 is a Polyetheretherketone (PMP) release film used in the processing of flat or simple curvature components. It offers a low-cost alternative to other high-temperature Aerospace-qualified films and PFAS free, ensuring excellent release from all common resin systems.

Application: Autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
843148	RF-A2500-RED-30-1350-400-NP -NP-FNS-SHT	1.5 mil	SHT	53	1,312

Available in 1.5 and 2 mil thicknesses up to 80” wide. Custom narrow width slitting is available to 2” minimum. Available with a range of perforation patterns.

COLOR	
PINK	
UPPER USE TEMPERATURE	
400 / 204	
TENSILE STRENGTH MPA	ELONGATION %
4351 PSI	285%

Release Film

A5000

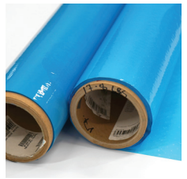
A5000 is a high-temperature fluoropolymer release film based on poly(tetrafluoroethylene-co-hexafluoropropylene) - FEP. A staple in the Aerospace industry for decades, A5000 boasts numerous Aerospace OEM approvals. Additionally, this film can be treated to make one side bondable for use in conjunction with reusable silicone bagging.

Application: Autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
232544	RF-A5000-VLT-25-1524-183-NP-NP-FNS	1 mil	SHT	60	600
836604	RF-A5000-VLT-25-1524-183-PIN-P3-FNS-SHT	1 mil	SHT	60	600
836605	RF-A5000-VLT-25-1524-183-PUN-P-FNS-SHT	1 mil	SHT	60	600

Available in 1 and 2 mil thicknesses up to 80” wide. Custom narrow width slitting is available to 2” min.
Available with a range of perforation patterns.

COLOR	TENSILE
VIOLET, WHITE, CLEAR, & RED	3500 PSI
ELONGATION	MAX USE TEMP.
300%	500 F / 260 C



A6200

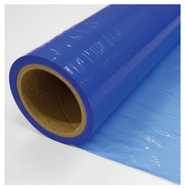
A6200 s a high temperature flouropolymer release film base on Ethylene Tetrafluoroethylene (ETFE).This film is approved by various Aerospace OEMs.

Application: Autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
698253	RF-A6200-BLU-25-1525-127-NP-NP-FNS-SHT	1 mil	SHT	60	417
696516	RF-A6200-BLU-25-1525-127-PIN-P3-FNS-SHT	1 mil	SHT	60	417

Available in .0005, .0006, .001 and .002” thicknesses. Custom narrow width slitting is available to 2” min..
Available with a range of perforation patterns.

COLOR	TENSILE
BLUE, CLEAR, & RED	TD: 6,000/ MD:10,000 PSI
ELONGATION	MAX USE TEMP.
350%	503 F / 262 C



MR1

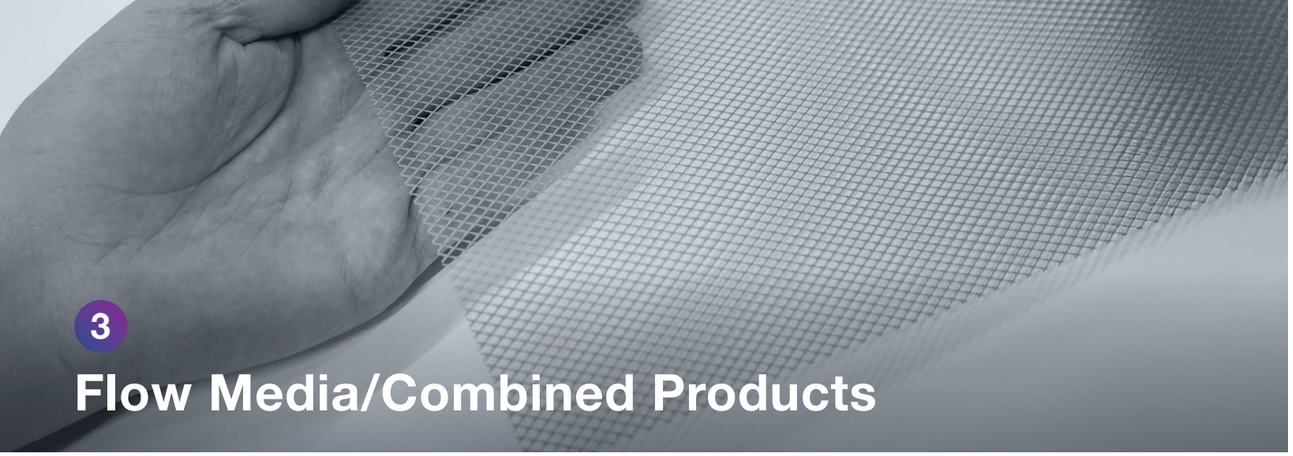
MR1 is a high-performance fluoropolymer film based on polytetrafluoroethylene (PTFE), renowned for delivering superior performance and surface finish on cured laminates.

Application: Autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic,BMI and Polyimide

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
676156	RF-MR1-BLU-25-1219-152-NP-NP-FNS-SHT	1 mil	SHT	48	500

Available in 1 and 2 mil thicknesses up to 48” wide. Custom narrow width slitting is available to 2” min.
Available with a range of perforation patterns.

COLOR	TENSILE
BLUE, RED, & BEIGE	4,300 PSI
ELONGATION	MAX USE TEMP.
400%	599 F / 315 C



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Flow Media/Combined Products

FLOW MEDIA & COMBINED PRODUCTS SUMMARY

PRODUCT	MATERIAL	UPPER USE TEMPERATURE °C/°F	FUNCTION				DENSITY GSM / OZ/YD²	APPROX. COST / M2
			BREATHER	PEEL PLY	RELEASE	FLOW MEDIA		
VI1	HDPE	248 /120				X	150 / 4.42	$$
Vi5	PET	200 / 392				X	100 / 3	$$
Vi10	PP	150 / 300				X	100 / 3	$
Infuply 2	HDPE + PE	120/248			X	X	175 / 5.16	$$$
Combi 1	HDPE + PE + PA	120/248		X	X	X	260/ 7.67	$$$$
COMPOFLEX® 150	PP	145 / 293	X		X		150 / 4.4	$$$
COMPOFLEX® SB RF3	PP + PE	145 / 293	X	X		X	335 / 9.9	$$$$$

VI1

The Flow Media VI1 is a 3D knitted infusion mesh made from HDPE, designed for vacuum-assisted resin infusion. It ensures controlled resin flow and continuous air evacuation, ideal for complex tooling geometries.

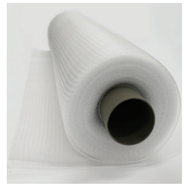
Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)	LENGTH (FEET)
697633	FM-VI1-BLU-150-1500	59	328

Available in a standard size of 59" wide with custom narrow width slitting available.
Wider widths are available.

COLOR	WEIGHT
BLUE	4.42 OZ/YD2
MATERIAL	MAX USE TEMP.
POLYETHYLENE	248 F / 120 C

Flow Media/Combined Products



Vi5

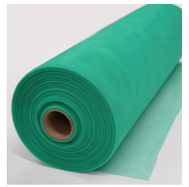
Vi5 is a knitted polyester mesh in a 3D pattern designed for use in the vacuum assisted resin infusion. Due to its composition and compatibility with Polyester and Vinyl Ester resins, it can be applied in the middle of glass fiber layers. It is ideal for use in areas of complex geometry and high temperature applications.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)	LENGTH (FEET)
698352	FM-VI5-WHT-100-1200-100	47	328

Available in a standard size of 47" wide with wider widths available by special order.

COLOR	WEIGHT
WHITE	3 OZ/YD2
MATERIAL	MAX USE TEMP.
PET	392 F / 200 C



Vi10

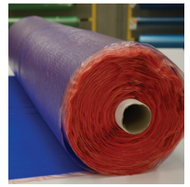
Vi10 is a an extruded polypropylene mesh with a diamond pattern ideally suited for air evacuation in vacuum infusion processes. Its softness does not damage vacuum bags during use and its geometric pattern allows for consistent controlled resin flow across a laminate.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)	LENGTH (FEET)
676151	FM-VI10-GRN-112-1040-107-SHT	41	107

Available in a standard size of 41" wide with custom narrow width slitting available.
Wider widths are available.

COLOR	WEIGHT
GREEN	3 OZ/YD2
MATERIAL	MAX USE TEMP.
POLYPROPYLENE	300 F / 149 C



INFUPLY2

Infuply2 is a combination of high comfortability Vi1 knitted infusion mesh and perforated release film A2400 with P16 perforation pattern. It reduces layup time and complexity and strips clean from the laminate surface.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)	PERFORATION
690307	INFUPLY2 VI1+A2400OHP16-1450-100	57	P16 Perforated Release Film

Available in a standard width of 57" wide

COLOR	WEIGHT
BLUE MESH / ORANGE FILM	5.16 OZ/YD2
MATERIAL	MAX USE TEMP.
POLYETHYLENE	248 F / 120 C

Flow Media/Combined Products

COMBI1

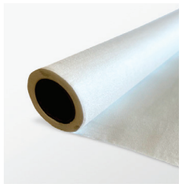
Vac-Ply Combi1 combines perforated release film, knitted infusion mesh and nylon peel ply all in one material. It reduces lay up time and complexity and easily conforms to complex parts. Its multi-layer construction can strip from the cured part in two different ways. One by pulling the release film and mesh, leaving the peel ply as temporary protection for the laminate, or by removing all three layers.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)	PERFORATION
232698	CM-COMBI1-VI1+A2400HP16 A100PS-1560-100	61	P16 Perforated Release Film

Available 61 inch wide rolls with the different layers staggered to allow for easier separation if desired.

COLOR	WEIGHT
BLUE MESH / ORANGE FILM / WHITE RED STRIPED PEEL PLY	7.67 OZ/YD2
MATERIAL	**MAX USE TEMP.**
POLYETHYLENE MESH & RELEASE FILM WITH NYLON PEEL PLY	248 F / 120 C



COMPOFLEX® 150

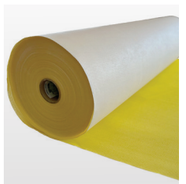
Compoflex 150 is a peel ply and release film, used to control flow rate and release consumables from a composite laminate. Compoflex® 150 generates a highly smooth surface, ideal for painting composite laminate.

Application: Infusion and oven
Resin: Polyester, Vinyl Ester, Epoxy and Phenolic

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)
581329	COMPOFLEX 150 104114 1.52 X 61M 4438019 92.72SM/RL	60

Custom narrow width slitting and wider widths are available.

COLOR	WEIGHT
WHITE	4.4 OZ / YD2
MATERIAL	**MAX USE TEMP.**
POLYPROPYLENE	293 F / 145 C



COMPOFLEX® SB RF3

Compoflex® SB RF 3 is a peel ply, release film, and flow mesh used to control the flow rate and release consumables from a composite laminate. It generates a highly rough and textured surface, ideal for secondary bonding and painting composite laminates. Compoflex® SB can reduce or eliminate the need for sanding or abrasion. Best results are achieved with epoxy resin, but we always recommend testing.

Application: Infusion
Resin: Polyester, Vinyl Ester, Epoxy and Phenolic

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)
662058	COMPOFLEX SB RF 3 1.52M X 61M 124241 92.72SM/RL	60

Custom narrow width slitting and wider widths are available.

COLOR	WEIGHT
WHITE AND YELLOW	9.8 OZ / YD2
MATERIAL	**MAX USE TEMP.**
POLYPROPYLENE & POLYETHYLENE	293 F / 145 C

4

Breather

A3000/RC3000

Breather fabrics are nonwoven materials made from polyester or nylon fibers, with some options available that include fire retardant (FR) additives. FR variants are recommended for use in non-inert curing atmospheres and meet vertical burn test requirements. All breather fabrics are highly conformable, allowing them to be easily molded to fit complex parts.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	STANDARD PRODUCT	CONSTRUCTION	WEIGHT	WIDTH (INCHES)	LENGTH (FEET)
676172	BR-A3000-WHT-136-1524-91	Polyester	4 oz	60	300
676176	BR-A3000-WHT-237-1524-46	Polyester	7 oz	60	150
676170	BR-RC3000-WHT-339-1524-46	Polyester	10 oz	60	150
232325	BR-RC3000-WHT-678-1524-23	Polyester	20 oz	60	75
232515	BR-A3000FR-WHT-136-1524-91	Polyester with FR	4 oz	60	300
232892	BR-A3000FR-WHT-237-1524-46	Polyester with FR	7 oz	60	150
676175	BR-RC3000NB-WHT-203-1524-46	Nylon	6 oz	60	150
232894	BR-RC3000NB-WHT-339-1524	Nylon	10 oz	60	150
691476	BR-RC3000NB-WHT-441-1524	Nylon	13 oz	60	150

Available in a standard size of 60” wide with wider widths available by special order.

Polyester

COLOR	WEIGHT
WHITE	4 OZ UP TO 20 OZ
MATERIAL	**MAX USE TEMP.**
POLYESTER	400 F / 204 C

Nylon

COLOR	WEIGHT
WHITE	4 OZ UP TO 13 OZ
MATERIAL	**MAX USE TEMP.**
NYLON	450 F / 232 C

4819

The Breathe 4819 is a highly conformable breather designed for complex composite cures. Made from 100% high-melt polyester, it offers excellent tensile strength and reduces bridging on complex surfaces, ensuring an optimal resin-to-fiber ratio in multi-layer applications.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	STANDARD PRODUCT	CONSTRUCTION	WEIGHT	WIDTH (INCHES)	LENGTH (FEET)
232911	PRE BR-4819-WHT-68-1219-229	Polyester	2 oz	48	750

Available in a standard size of 48” wide with wider widths available by special order.

COLOR	WEIGHT
WHITE	2 OZ/YD2
MATERIAL	**MAX USE TEMP.**
POLYESTER	400 F / 204 C

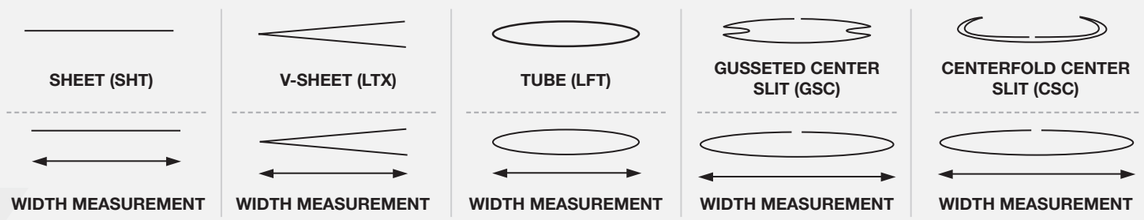
5

Bagging Film

BAGGING FILM APPLICATION SUMMARY

PRODUCT	MATERIAL	UPPER USE TEMPERATURE °C/°F	TENSILE STRENGTH	ELONGATION %	CONFORM-ABILITY	APPROX. COST / M2	APPLICATION	MARKET	RESIN
HS8171	Nylon	204°C/400°F	15000 PSI	400%	++	$$$	Autoclave cure cycles	Aerospace, Defense	Polyester, Vinyl Ester, Epoxy and Phenolic*
SV4000	Nylon	212°C/414°F	15228 PSI	500%	++++	$$	Infusion, oven and autoclave cure cycles	Automotive, Aerospace, Defense	Polyester, Vinyl Ester, Epoxy and Phenolic*
SV250	Polyurethane	135°C / 275°C	11000 PSI	500%	+++++	$$$$$	Compaction or De-bulk	Aerospace, Defense, Automotive	Most common resin system
HS8171 Quick Draw	Nylon	204°C/400°F	14000 PSI	415%	++	$$$$$	Compaction or De-bulk	Aerospace, Defense, Automotive	Most common resin system
500G	Nylon and Polypropylene	150°C/302°F	7200PSI	460%	+++	$$	Wet lay-up and infusion	All markets	Polyester, Vinyl Ester and Epoxy
205B	Polyethylene and Nylon (30%)	120°C/248°F	6500 PSI	600%	+++	$	Wet lay-up and infusion	Marine and Wind (Nacelles)	Polyester, Vinyl Ester and Epoxy
200G	Polyethylene and Nylon (30%)	120°C/248°F	6500 PSI	500%	+++	$	Wet lay-up and infusion	Marine and Wind (Nacelles)	Polyester, Vinyl Ester and Epoxy

HOW DIFFERENT PRODUCTS ARE MEASURED



Bagging Film

Four Important Cost Considerations:

The price of vacuum bags is influenced not only by the composition of the film but also by four other factors: thickness, width, length, and packaging.

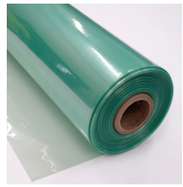
1. **Thickness.** Films with a thickness of 3 mil have a higher cost compared to those with a thickness of 2 mil due to the increased quantity of raw material per square meter.
2. **Width.** Films with widths exceeding 8 to 10 meters require specialized manufacturing and handling equipment, which may result in higher prices in some cases.
3. **Length.** Film rolls with short lengths cannot be manufactured directly on the blown film extrusion line, leading to increased costs due to secondary operations.
4. **Packaging.** The price may vary depending on the packaging method, as outlined to the right.

VFS ($$$)

This packaging is designed for low volume sales, featuring individual cardboard tube protection for each roll.

VFS2 ($)

A protective cardboard box over the completed pallet. Packaging best suited for sale in full pallet quantities.



HS8171

HS8171 is the traditional co-extruded modified nylon film, which has been qualified to numerous Aerospace manufacturer specifications.

Application: Autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy and Phenolic*

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
834031	VF-HS8171-51-965-305-LFT	2 mil	LFT	38*	1000
834033	VF-HS8171-51-1270-305-LFT	2 mil	LFT	50*	1000
834035	VF-HS8171-51-1575-305-LFT	2 mil	LFT	62*	1000
834037	VF-HS8171-51-1828-305-LFT	2 mil	LFT	72*	1000
834039	VF-HS8171-51-952-305-LTX	2 mil	LTX	74 (open)	1000
834032	VF-HS8171-51-1257-305-LTX	2 mil	LTX	98 (open)	1000
834034	VF-HS8171-51-1562-305-LTX	2 mil	LTX	122 (open)	1000
834036	VF-HS8171-51-1816-305-LTX	2 mil	LTX	142 (open)	1000
834038	VF-HS8171-51-914-305-SHT	2 mil	SHT	36	1000
697838	VF-HS8171-51-1219-305-SHT	2 mil	SHT	48	1000
675664	VF-HS8171-51-1524-305-SHT	2 mil	SHT	60	1000
834040	VF-HS8171-51-1778-305-SHT	2 mil	SHT	70	1000

COLOR	TENSILE
GREEN	15,000 PSI
ELONGATION	**MAX USE TEMP.**
400%	400 F / 204 C

Available in 2 mil thicknesses up to 3.6 meters wide in standard sheet, v-sheet and lay flat tube formats.

** Application is feasible but necessitates validation on a case-by-case basis, primarily considering factors such as temperature and resin type.*

*** For tube format film (LFT), the width in inches is measured as the envelope's width, which can be unfolded to double the size.*

Bagging Film

SV4000

SV4000 is a nylon-based film designed for parts with complex geometries, engineered to retain its soft properties even in dry conditions.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy and Phenolic*

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
845586	VFS-SV4000-50-150-200-LFT	2 mil	LFT	6*	656
845587	VFS-SV4000-50-200-200-LFT	2 mil	LFT	8*	656
845583	VFS-SV4000-50-300-500-LFT	2 mil	LFT	12*	1640
845582	VFS-SV4000-50-460-305-LFT	2 mil	LFT	18*	1000
838213	VFS-SV4000-50-600-305-LFT	2 mil	LFT	24*	1000
845584	VFS-SV4000-50-690-305-LFT	2 mil	LFT	27*	1000
834241	VFS-SV4000-50-910-305-LFT	2 mil	LFT	36 *	1000
834195	VFS-SV4000-50-1220-305-LFT	2 mil	LFT	48*	1000
834196	VFS-SV4000-50-1370-305-LFT	2 mil	LFT	54*	1000
834197	VFS-SV4000-50-1520-305-LFT	2 mil	LFT	60*	1000
834198	VFS-SV4000-50-1830-305-LFT	2 mil	LFT	72*	1000
834194	VFS-SV4000-75-2300-152-LFT	3 mil	LFT	90*	500
834199	VFS-SV4000-50-910-305-LTX	2 mil	LTX	72 (open)	1000
834219	VFS-SV4000-50-1220-305-LTX	2 mil	LTX	96 (open)	1000
834223	VFS-SV4000-50-1370-305-LTX	2 mil	LTX	107 (open)	1000
834212	VFS-SV4000-50-1520-305-LTX	2 mil	LTX	120 (open)	1000
834213	VFS-SV4000-50-1830-305-LTX	2 mil	LTX	144 (open)	1000
834215	VFS-SV4000-75-2300-152-LTX	3 mil	LTX	181 (open)	500
834225	VFS-SV4000-50-910-610-SHT	2 mil	SHT	36	2000
834214	VFS-SV4000-50-1220-610-SHT	2 mil	SHT	48	2000
834217	VFS-SV4000-50-1370-305-SHT	2 mil	SHT	54	1000
834218	VFS-SV4000-50-1520-305-SHT	2 mil	SHT	60	1000
834220	VFS-SV4000-50-1830-305-SHT	2 mil	SHT	72	1000
834226	VFS-SV4000-75-2300-152-SHT	3 mil	SHT	91	500

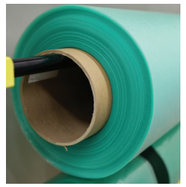
COLOR	TENSILE
PINK	15,228 PSI
ELONGATION	MAX USE TEMP.
500%	414 F / 212 C

Available in 2 and 3 mil thicknesses up to 4.6 meters wide in standard sheet, v-sheet and lay flat tube formats.

**Application is feasible but necessitates validation on a case-by-case basis, primarily considering factors such as temperature and resin type.*

*** For tube format film (LFT), the width in inches is measured as the envelope's width, which can be unfolded to double the size.*

Bagging Film



HS8171 QUICK DRAW- EMBOSSED

HS8171 Quick Draw is fabricated from the same co-extruded modified nylon film as standard HS8171, but with an added embossed textured pattern designed for effective air evacuation during compaction or de-bulking processes. It has undergone qualification according to numerous Aerospace manufacturer specifications. Depending on the geometry and application requirements, this product offers potential cost savings for customers, as it replaces the need for separate bagging film, breather, or release film, streamlining the process into a single item.

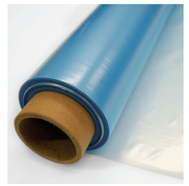
Application: Compaction or de-bulk
Resin of the main application: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
676352	VF-HS8171QD-51-1524-152-SHT	2 mil	SHT	60	500
676349	VF-HS8171QD-51-3048-152-SHT	2 mil	SHT	120	500

COLOR	TENSILE
GREEN	14000
ELONGATION	MAX USE TEMP.
415%	400 F / 204 C

Available in 2 and 3 mil thicknesses up to 3.048 meters wide in standard sheet format.

**Application is feasible but necessitates validation on a case-by-case basis, primarily considering factors such as temperature and resin type.*



SV250

The SV250 is a polyurethane film known for its exceptional conformability, making it ideal for applications where flexibility and elongation are crucial, particularly in complex geometries. Film primarily used for debulking purposes, but can also be employed during the curing process, especially in instances of low-temperature processing.

Application: Compaction or de-bulk
Resin of the main application: Epoxy (cure application), Polyester, Vinyl Ester, Phenolic and BMI

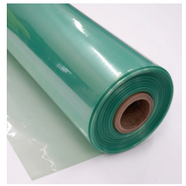
PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
676555	VF-SV250-51-1524-305-LTX	2 mil	LTX	120 (Open)	1000
676352	VF-SV250-51-1524-610-SHT	2 mil	SHT	60	2000

COLOR	TENSILE
LIGHT BLUE	7200
ELONGATION	MAX USE TEMP.
500%	275 F / 135 C

Available in 1.5 and 2 mil thicknesses up to 3,05 wide without seams & wider widths by heat seaming two larger bags together.

**Application is feasible but necessitates validation on a case-by-case basis, primarily considering factors such as temperature and resin type.*

*** Due to its composition as a polyurethane film, it requires the use of a specialized sealing tape, such as VS2042.*



500G

The 500G film is designed for both vacuum bagging and release applications on both sides, suitable for cures up to 302°F. It provides reliable release from most resins used in Aerospace, Automotive, and Marine industries. The embossed version accelerates compaction and debulking, making the process faster and more cost-effective. Additionally, the film can be perforated, as available in the release film portfolio.

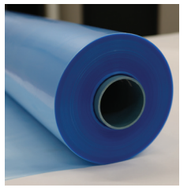
Application: Compaction or de-bulk
Resin of the main application: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
845115	VFS2-500G-50-2000-500-SHT	2 mil	SHT	78	1,640
845116	VFS2-500G-50-2500-500-SHT	2 mil	SHT	98	1,640
845122	VFS2-500G-50-1500-500-SHT	2 mil	SHT	59	1,640

COLOR	TENSILE
GREEN	14000
ELONGATION	MAX USE TEMP.
460%	302 F / 150 C

** Application is feasible but necessitates validation on a case-by-case basis, primarily considering factors such as temperature and resin type.*

Bagging Film



205B

The film incorporates a polyethylene surface and a polyamide interior, achieving a balance between properties and cost-effectiveness. Additionally, the presence of polyethylene on the surface reduces the influence of humidity on its performance. This film is primarily engineered for the production of large parts and has been shown to work well in low humidity enviroment.

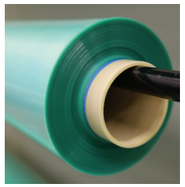
Application: Wet lay-up and infusion processes
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
843182	VFS-205B-80-2000-200-SHT	3 mil	SHT	79	656
700293	VFS-205B-80-2000-200-LTX	3 mil	LTX	157 (Open)	656
701212	VFS-205B-80-2250-160-GSC	3 mil	GSC	177 (Open)	525
699793	VFS-205B-75-3000-125-GSC	3 mil	GSC	236 (Open)	410
700288	VFS-205B-80-4000-80-GSC	3 mil	GSC	315 (Open)	262
846422	VFS-205B-80-5250-75-GSC	3 mil	GSC	413 (Open)	246
700289	VFS-205B-80-6000-75-GSC	3 mil	GSC	472 (Open)	246
699796	VFS-205B-80-8000-65-GSC	3 mil	GSC	630 (Open)	213

COLOR	
BLUE	
TENSILE TRANSVERSE	
6500 PSI	
ELONGATION	MAX USE TEMP.
600%	245 F / 120 C

Available in 3 mil thicknesses up to 16 meters wide without seams and wider widths by heat seaming two larger bags together.

**Application is feasible but necessitates validation on a case-by-case basis, primarily considering factors such as temperature and resin type.*



200G

The film incorporates a polyethylene surface and a polyamide interior, achieving a balance between properties and cost-effectiveness. Additionally, the presence of polyethylene on the surface reduces the influence of humidity on its performance. This film is primarily engineered for the production of large parts.

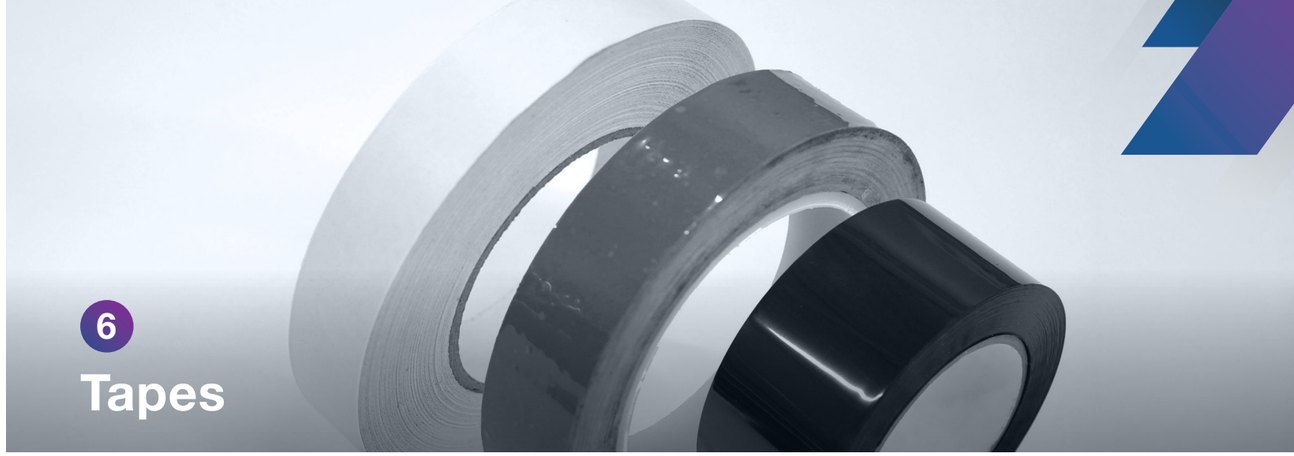
Application: Wet lay-up and infusion processes
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	THICKNESS	FORMAT	WIDTH (INCHES)	LENGTH (FEET)
832016	VF-200G-75-2000-150-LTX	3 mil	LTX	157 (Open)	492
831768	VFS-200G-80-3000-125-CSC	3 mil	CSC	236 (Open)	410
832610	VFS-200G-80-4000-80-CSC	3 mil	GSC	315 (Open)	262
690309	VF-200G-80-5000-75-GSC	3 mil	GSC	393 (Open)	246
695112	VFS-200G-80-6000-75-GSC	3 mil	GSC	472 (Open)	246
676238	VF-200G-75-8000-40-GSC	3 mil	GSC	630 (Open)	131

COLOR	
GREEN	
TENSILE TRANSVERSE	
6500 PSI	
ELONGATION	MAX USE TEMP.
500%	245 F / 120 C

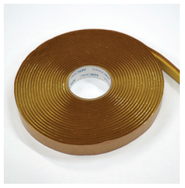
Available in 3 mil thicknesses up to 16 meters wide without seams and wider widths by heat seaming two larger bags together. Film with a width of up to 8 meters has lower prices.

**Application is feasible but necessitates validation on a case-by-case basis, primarily considering factors such as temperature and resin type.*



6

Tapes



VS2042

Vac Seal 2042 is high temperature multi-purpose butyl rubber sealant tape suitable for a wide range of composite applications. Its high tack, easy, residue free release makes it ideal for use with both composite and metal tooling applications.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI.

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)	LENGTH (FEET)
676148	ST-VS2042-YLW-3.18-12.7-7.62	RL	1/2	25

COLOR	BASE MATERIAL
YELLOW	BUTYL RUBBER
TACK LEVEL	MAX USE TEMP.
HIGH	400 F / 204 C

LTS90

LTS90 is a low temperature multi-purpose butyl rubber sealant tape suitable for a wide range of composite applications.

Application: Infusion, oven and Debulk
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)	LENGTH (FEET)
699893	AUS ST-LTS90-BLK-3-12-15-BR-RL	Roll	1/2	50

COLOR	TACK LEVEL
BLACK	INTERMEDIATE
BASE MATERIAL	MAX USE TEMP.
BUTYL RUBBER	365 F / 180 C

FT1

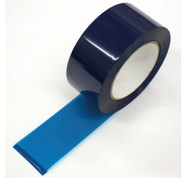
Flashtape 1 is a polyester-backed pressure-sensitive silicone adhesive tape utilized for temporarily securing vacuum infusion materials such as peel ply, breather, or release film in place during the manufacturing process. It cleanly strips off after use, leaving no residue behind.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic, BMI and Polyimide

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)	LENGTH (FEET)
676184	AT-FT1-BLU-64-12.7-66-SL	Roll	0.5	216
676182	AT-FT1-BLU-64-25.4-66-SL	Roll	1	216
676183	AT-FT1-BLU-64-50.8-66-SL	Roll	2	216

COLOR	ADHESIVE TYPE
BLUE	SILICONE
ELONGATION	MAX USE TEMP.
100%	400 F / 204 C

Available in standard widths of .5, 1 and 2". Also available with rubber based adhesives as FT1R.



FT2

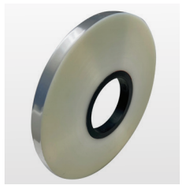
Flashtape 2 is a more robust version than FT1, containing double the amount of polyester carrier Its application is the same as the FT1 version, however, it is a stronger version and it should be used where extra strength is needed. It cleanly strips off after use, leaving no residue behind.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic, BMI and Polyimide

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)	LENGTH (FEET)
676178	AT-FT2-BLU-88.9-25.4-66-SL	Roll	1	216
676186	AT-FT2-BLU-88.9-50.8-66-SL	Roll	2	216

COLOR	ADHESIVE TYPE
BLUE / GREEN	SILICONE
ELONGATION	MAX USE TEMP.
100%	400 F / 204 C

Available in standard widths of 1 and 2". Also available with rubber based adhesives as FT2R.



RAP HOLD 1

Rap Hold 1 is a higher temperature double-sided adhesive tape which is ideally suited to applications where a temporary mounting is required. It features a polyester backing film with acrylic adhesive.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic,BMI and Polyimide

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)	LENGTH (FEET)
232953	AT-RH1-CLR-102-25.4-33-AC	Roll	1	108

COLOR	ADHESIVE TYPE
CLEAR	ACRYLIC
ELONGATION	MAX USE TEMP.
100%	400 F / 204 C

Available in standard widths of 1 and 2". A rubber based adhesive version is also available.

RAP HOLD 10

Rap Hold 10 is a double-sided adhesive tape which is ideally suited to applications where a temporary mounting is required. The natural rubber based adhesive is supported on a woven cotton carrier. It has good adhesion to a wide range of substrates and removes without any residue.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic, BMI and Polyimide

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)	LENGTH (FEET)
676218	AT-RH10-TAN-330-25.4-23-RB	Roll	1	75
830206	AT-RH10-TAN-330-50.8-23-RB	Roll	2	75

COLOR	ADHESIVE TYPE
WHITE	NATURAL RUBBER
	TEMP. RANGE
	5°F to 160°F / -15°C to 70°C

Available in standard widths of 1 and 2". A polyester based version is also available.

TOOLCOAT ST

Toolcoat ST is a PTFE-sensitive tape with a fully cured silicone adhesive, providing multiple releases on various tooling surfaces. Its high conformability makes it ideal for use on contoured bond jigs and lay-up molds. Inert to most chemicals and environmental factors, it eliminates the need for liquid or paste release coatings. The tape offers excellent release, low friction, electrical insulation, and temperature resistance. It is also suitable for applications like flash control, heat-sealing machines, and non-stick, low friction surfaces.

Application: Infusion, oven and autoclave cure cycles
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic, BMI and Polyimide

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)	LENGTH (FEET)
676181	AT-TCST02S-GRY-89-25.4-33 SL	Roll	1	108
232934	AT-TCST02S-GRY-89-50.8-33 SL	Roll	2	108

COLOR	ADHESIVE TYPE
BEIGE	SILICONE
MAX USE TEMP.	
500 F / 260 C	

Available in standard widths of 1, 2 and 4". An acrylic-based adhesive version is also available.

VAC-SHRINK ST2

Shrink Tape ST2 is a tough, flexible, heat-shrinkable polyester film. When wrapped around an object and heated, ST2 has the unique ability to shrink and apply pressure over the surface of composites. This simple method of pressure application is advantageous in many industries, including Advanced Composites, Aerospace, and Defense.

PRODUCT CODE	DESCRIPTION	UOM	WIDTH (INCHES)
683725	RF-ST2-CLR-51-51-91-NP-NP	Roll	2

COLOR
CLEAR
SHRINK %
20%
UPPER USE TEMPERATURE °C/°F
165/ 330

ST2 is available uncoated (Type S) and release coated with a PTFE release coat (Type R).

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Ancillaries

AEROFIX 3

Aerofix 3 is a spray adhesive designed specifically for use in composite manufacturing to secure dry fiber and consumables before the infusion process. Aerofix 3's formulation is based on Polyester, making it compatible with Polyester and Vinyl Ester resins and with some compatibility in Epoxy resins. The key advantage of using Aerofix 3 is that it does not affect the mechanical properties, such as short beam shear, of the final composite product. The standard Aerofix 3 product is blue in color, making it easy to identify during production. It is also available in red and a high tack variant, which is mainly used in the Wind Energy market for its enhanced adhesion properties.

Application: Infusion, oven, RTM light, silicone bag
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	MOQ
696189	AEROFIX 3 500ML SPRAY ADH 12/CS	12

VACUUM PROBE/FROG

Through bag fittings to provide reliable resin supply. Maximum temperature use up to 400F.

Application: Autoclave
Resin: Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	MOQ
684397	QP250 VAC VALVE 1/4NPT SET 1/4 TURN FROG 2.5 DIA	10
688661	TP250 THREADED PROBE 1/4 NPT 2.5''	10
841484	TP252 3-PCS SELF CUTTING THREADED	10
841485	TP253 3-PCS SELF CUTTING THREADED	10

Ancillaries

AUTOCLAVE HOSES

Our autoclave hoses are flexible vacuum hoses with a silicone jacket over inner convoluted metal bracing, featuring ¼" FNPT brass male fittings and a standard 10' length (HS110103). Custom fittings and lengths are available. Medium and heavy-duty options withstand temperatures up to 450°F, ensuring reliable performance in high-temperature autoclave environments.

Application: Autoclave
Resin: Epoxy, Phenolic and BMI

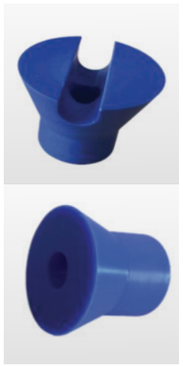
PRODUCT CODE	DESCRIPTION	MOQ
841553	HS11013 10' HD VACUUM HOSE 450F	10 EACH

THERMOCUPLES – TYPE J

Designed for composite autoclave applications, Type J thermocouples feature an integrated plug with fluoropolymer insulation, rated up to 500°F, eliminating the need for compression sleeves. They offer high accuracy (special/half-limit error), low thermal mass (20-24 gauge), and BAC 5621 certification for precision and reliability.

Application: Autoclave
Resin: Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	MOQ
843411	HW-GE/X-24-J24-6345-1M-120"	120 "
843285	HW-GE/X-24-J24-6347-1M-240"	240"
843307	HW-GE/X-24-J24-7242-1M-360"	360"
843410	HW-GE/X-24-J24-6374-1M-60"	60"
843412	HW-GE/X-24-J24-6346-1M-180"	180"
843413	HW-GE/X-24-J24-6514-1M-36"	36"
843286	HW-GE/X-24-J24-7262-1M-300"	300"



RESIN INFUSION CONNECTOR- GROOVED AND FLAT BOTTOM

The Flat Bottom and Grooved Resin Infusion Connectors are designed for resin feed systems, offering reliable and efficient solutions for the infusion process. Made from a special material, both connectors are reusable, easy to clean, and allow effortless removal of cured resin. The flat connector provides a simple connection, while the grooved version ensures efficient through-bag connections with spiral tubing. They optimize the resin infusion process, ensuring a seamless and cost-effective setup.

Application: Infusion,
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	MOQ
686193	PRC001 INFUSION CONNECTOR 1/2'' HOLE GROOVED BOTTOM	10
686194	PRC002 INFUSION CONNECTOR 5/8'' HOLE GROOVED BOTTOM	10
824682	PRC003 INFUSION CONNECTOR 3/4'' HOLE GROOVED BOTTOM	10
686701	PRC0012 INFUSION CONNECTOR 1/2'' HOLE FLAT BOTTOM	10
689443	PRC0022 INFUSION CONNECTOR 5/8'' HOLE FLAT BOTTOM	10
698440	PRC0032 INFUSION CONNECTOR 3/4'' HOLE FLAT BOTTOM	10

Ancillaries

INFUSION VALVES

A polyoxymethylene double O-ring infusion valve available in various sizes outside diameter connections. Higher operating temperature range than comparable polyethylene (PE) infusion valves.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	MOQ
700947	IV10 10MM INFUSION VALVE 248F/120C MAX TEMP	20
700952	IV12 12MM INFUSION VALVE 248F/120C MAX TEMP	20
703051	IV18 18MM INFUSION VALVE 248F/120C MAX TEMP	20

RESIN INFUSION CONNECTOR - TEES

Nylon and polyethylene-based “tees” are processing components available in various sizes, used to connect hoses and integrate with tubing and spiral wrap systems.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	SIZE	COMPOSITION
599728	TT-9101010-N BARBED TEE NYLON	5/8 X 5/8 X 5/8	Nylon
599733	TT-9666-P BARBED TEE'S	3/8 X 3/8 X 3/8	Polyethylene
599734	TT-9666-N BARBED TEE NYLON	3/8 X 3/8 X 3/8	Nylon
599736	TT-9888-N BARBED TEE NYLON	1/2 X 1/2 X 1/2	Nylon

RESIN CATCH POT

The Item 4760 metallic resin catch pot is built for vacuum-assisted resin infusion processes, ensuring complete vacuum integrity. It effectively traps excess resin, protecting the vacuum pump system and enhancing efficiency in composite manufacturing.

Application: Infusion and autoclave
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	MOQ
678109	4760-01 2.5GL VACUUM RESERVOIR	1

CLAMPS

Both the 4795 and 4796 clamps are designed to secure hoses and maintain vacuum integrity during the infusion process. The main difference is that the 4795 clamp has a larger surface area, making it easier to attach and secure the hoses.

Application: Infusion and autoclave
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	MOQ
690618	4795-01 CLAMPING GRIPS FOR TUBE 3"	1
692812	4796-01 CLAMPING GRIPS FOR TUBE	1

Ancillaries

TUBE CUTTER

The Tube Cutter is designed for clean, precise cuts of hoses and rigid spiral wraps, making it essential for composite infusion and industrial applications.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	SIZE	COMPOSITION
697042	4797-01 TUBE CUTTER	1	Nylon

VACUUM REGULATOR/VACUUM GAUGE

VG250 is a liquid filled vacuum gauge designed to provide accurate vacuum readings. VG250 has a male ¼” NPT fitting and a 0 to -30 in Hg pressure gauge. Works with PD3 QD250 fittings and other ¼” NPT products.

Application: Infusion and autoclave
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	MOQ
684898	VR250 VAC REGULATOR ASMBLY 1/4 M NPT	1
688660	VG001 LIQUID FILLED VAC GAUGE 1/4 NPT BOTTOM MOUNT	1

LEAK DETECTOR VACUUM

The Leak Detector Vacuum helps identify leaks in vacuum bags during infusion and prepreg processes. It amplifies the sound of leaks and also features a visual detector, ensuring accurate detection of even the smallest leaks to maintain optimal vacuum pressure.

Application: Infusion and autoclave
Resin: Polyester, Vinyl Ester, Epoxy, Phenolic and BMI

PRODUCT CODE	DESCRIPTION	MOQ
678110	RTN 4788-01 LEAK DETECTOR VACUUM	1

VMS3

Vac-Ply VMS3 is a revolutionary vacuum medium strip, which opens new possibilities in infusion network design. VMS3 reduces the risk of dry spots or incomplete wet out by drawing air and volatiles from the laminate throughout the infusion process, without drawing any resin into the vacuum line. It also reduces the risk of rework and eliminates resin waste, as well as optimizing process control and part quality. VMS3 can be placed directly on the part surface, and is self-releasing.

Application: Infusion and prepreg
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	WIDTH (INCHES)
698245	CM-VMS3-HT-150-120-SHT	6

Custom narrow width slitting and wider widths are available.

COLOR	WEIGHT
ORANGE RELEASE / WHITE OUTSIDE	3 OZ / SQUARE YD
MATERIAL	MAX USE TEMP.
POLYPROPYLENE	285 F / 140 C

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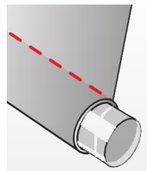
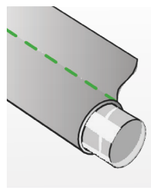
Feed and Vacuum Systems



VECTORVAC PS58-6

The VectorVac PS58-6 RED features an 8” tail designed to reduce resin flow into the catch pot by creating a resin break before it reaches the vacuum line. It is made from spiral tubing with Compoflex, which serves as an easy-removal peel ply, minimizing marks on the final part and aiding in the infusion break process. Sewn in red for easy visibility.

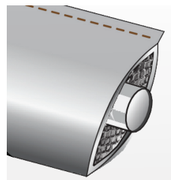
PRODUCT CODE	DESCRIPTION	MOQ
673170	VECTORVAC PS58-6 RED200LF/RL #VV586	10 rolls - 200LF



VECTORFEED PS58

Vectorfeed PS 58 GREEN is specifically designed to efficiently deliver a high volume of resin to other feed lines rapidly. It features spiral tubing combined with Compoflex, sewn in green for enhanced visibility. The Compoflex material aids in preventing marks on the final parts, ensuring clean and smooth finishes in composite manufacturing processes.

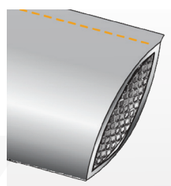
PRODUCT CODE	DESCRIPTION	MOQ
673171	VECTORFEED PS58 GREEN 200LF/RL #VF58	10 rolls - 200LF



VECTORFEED PES58-2

Vectorfeed PES58-2 BROWN is engineered to efficiently transfer a high volume of resin to other feedlines swiftly, while preventing spiral prints and indentations in laminates. It offers 25% more resin flow compared to Vectorfeed Green. Constructed with spiral wrap, mesh, and covered with a perforated release film, it ensures optimal resin distribution and minimizes surface imperfections in composite manufacturing processes.

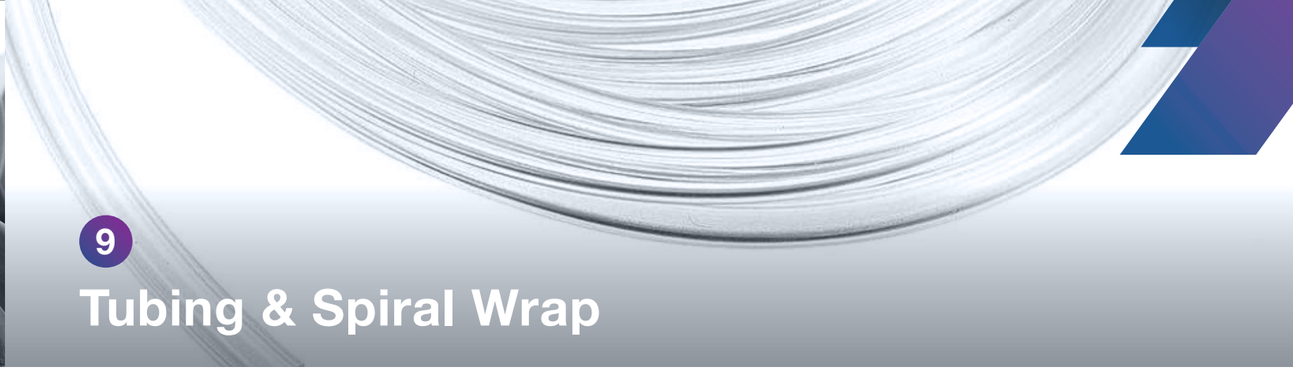
PRODUCT CODE	DESCRIPTION	MOQ
689948	VECTORFEED PES58-2 BROWN200LF/RL #VF582	10 rolls - 200LF
702191	VEC VECTORFEED RES58-2 BRN 2.0	10 rolls - 200LF



VECTORFEED PE35

Vectorfeed PE 35 ORANGE is tailored for low-resin-flow applications, particularly suitable for vertical walls. Featuring a mesh-covered perforated release film, it facilitates easy removal after resin curing.

PRODUCT CODE	DESCRIPTION	MOQ
687141	VECTORFEED PE35 ORANGE 200LF/RL #VF35	10 rolls - 200LF
697194	VEC VECTORFEED RE35 ORANGE 2.0	10 rolls - 200LF



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Tubing & Spiral Wrap

Additional inside and outside product diameters available. Additional roll length options available.

POLY TUBING

Poly tubing, made from hard polyethylene, is crucial in the vacuum infusion process for composites. It serves two main applications: transport resin from the supply container to the mold and vacuum air the tubing connects the mold to the vacuum pump, efficiently removing air from the part to create the necessary vacuum pressure. It is designed to be robust enough to avoid collapse under pressure in a typical vacuum cycle.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	ROLL LENGTH (FT.)
603410	1/4 X 3/8 TUBING POLYETHYLENE, NATURAL, 500' PER SPOOL	500'
648353	3/8 X 1/2, TUBING POLYETHYLENE, NATURAL, 300' PER SPOOL	300'
612573	1/2 X 5/8, TUBING POLYETHYLENE, NATURAL, 200' PER SPOOL	200'
602176	5/8 X 3/4, TUBING POLYETHYLENE, NATURAL, 100' PER SPOOL	100'

Additional inside and outside product diameters available. Additional roll length options available.

SPIRAL TUBING

A spiral tubing is a polyethylene tubing used along the edges of the mold to facilitate the even distribution of resin. As vacuum pressure pulls the resin through the laminate, the spiral wrap ensures consistent flow and minimizes air entrapment. This results in a high-quality, void-free composite part. It is designed to be robust enough to avoid collapse under pressure in a typical vacuum cycle.

Application: Infusion
Resin: Polyester, Vinyl Ester and Epoxy

PRODUCT CODE	DESCRIPTION	ROLL LENGTH (FT.)
696746	1/4" x 0.052 Spiral Wrap POLYETHYLENE, NATURAL, 1,000' PER SPOOL	1,000'
641337	3/8 X .052, STANDARD SPIRAL WRAP POLYETHYLENE, NATURAL, 500' PER SPOOL	500'
674469	1/2 X .062, STANDARD SPIRAL WRAP POLYETHYLENE, NATURAL, 300' PER SPOOL	300'
594358	5/8 X .062, STANDARD SPIRAL WRAP POLYETHYLENE, NATURAL, 200' PER SPOOL	200'
566780	3/4" X .065, STANDARD SPIRAL WRAP POLYETHEYLENE, NATURAL, 100' PER SPOOL	100'
672322	1" .070, STANDARD SPIRAL WRAP POLYETHYLENE, NATURAL, 75' PER SPOOL	75'

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