



PEARLVEIL

For Flat Molding and Filament Winding

Product Description

Pearlveil is a non-woven, continuous strand glass fiber surfacing veil for relatively flat composite parts. Process applications include:

- Pre-form
- Compression Molding
- Continuous Lamination
- Electrical Flat Sheet
- RTM / Vacuum Infusion
- Filament Winding
- Glass Reinforced Gypsum (GFRG)

Binder Selection

Select the correct binder for any specific molding process or application from the SI Veils Binder Selection Data Sheet.

Appearance

SI Veils are white in color, highly uniform and substantially free of tears, holes, glass beads and tails or other foreign materials.

Width

Standard widths range from 40 inches (1.016 m) up to 120 inches (3.048 m). Narrower widths are available, a slitting charge and minimum quantity requirements may apply.

Features

- Boron free glass fibers
- Outstanding surface finish results
- Light weight reinforcement

- Excellent resin wet-out
- Good electrical resistance properties
- Roll widths up to 120 inches wide
- Longer length rolls, thus reducing the number of rolls required to be put up while completing a project.
- Customer specified binder percentage
- Corrosion resistance under acidic conditions. See Corrosion Data Sheet
- Contamination free
- Consistent white color, transparent to the finished part
- Excellent punch-ability properties
- Easily sanded for improved post-finishing

Options

Pearlveil offers many configuration options which helps to ensure a perfect match with your composites process.

Some customer specified options include:

- Weight per square foot/square meter
- Roll width from 3 to 120 inches
- Binder percentage
- Fiber orientation
- Fiber diameter
- Custom cut pieces
- Custom packaging
- Other options – consult factory

Pearlveil Specifications

Other custom weights may be possible, consult factory for price and availability.

Pearlveil Specification	Thickness Inches (mm)	Ounces / Sq. Ft.	Grams / Sq. meter	Length - Feet (+/- 10 %)	Length m (+/- 10 %)	Roll Dia. Inches
3 mil	.003 (0.08)	0.05	15	1,750	530	12" - 15"
5 mil	.005 (0.13)	0.06	20	1,750	530	12" - 15"
7 mil	.007 (0.18)	0.09	30	1,750	530	14" - 17"
10 mil	.010 (0.25)	0.12	40	1,750	530	16" - 20"
15 mil	.015 (0.38)	0.18	55	1,750	530	20" - 24"
20 mil	.020 (0.51)	0.26	80	1,750	530	25" - 28"
30 mil	.030 (0.76)	0.34	105	1,400	430	25" - 28"
40 mil	.040 (1.02)	0.47	145	900	270	23" - 25"
1/2 Ounce	.043 (1.08)	0.50	155	900	270	23" - 25"

Note: Rolls 80 inches or wider may be cut to half-length to maintain reasonable roll weight.

Packaging

All veils are wound onto a heavy duty 3 inch I.D. cardboard core, immediately sealed against contamination in a polyethylene bag and identified with a unique, product specific label.

Based upon quantities, Pearlveil is shipped on wooden pallets, typically 9 rolls per pallet. Optional packaging is available.

All material is supplied in roll goods form with trimmed edges.

Quality

All Pearlveil products are manufactured in the United States and meet the demanding quality requirements within the composites industry.

Storage

For best results, Pearlveil should be stored indoors, with temperatures between 50° F (10° C) and 90° F (32° C) and relative humidity below 80%. It should remain upright, on a pallet and in the original packaging until ready to use.

Warranty

See Schmelzer Industries' Standard Terms and Conditions.

About Schmelzer Industries

Schmelzer Industries Inc., headquartered in Somerset, Ohio, is a glass fiber manufacturer, custom materials developer and supplier of quality veils and light weight reinforcements for the composites industry. We can be found on the internet at www.siveils.com

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