

# NEXUS®

Polyester Surfacing Veil for Reinforced Plastics

## Characteristics

- 100% high melt polyester veil
- Available with or without resin binders
- Superior chemical and corrosion resistance
- High tensile strength
- Available in widths from 1" to 190"
- Available color-matched to requirements
- Available in a variety of finishes

## Applications

### Pultrusion:

- Improves weatherability and corrosion resistance
- Reduces fiber blooming
- Reduces die wear and production shutdowns
- Improves abrasion and impact resistance
- Fast wet-out
- Excellent conformability to complex shapes

### Filament Winding/Open and Closed Molding:

- Superior corrosion and stress corrosion resistance
- Winds readily with less web breakage
- Improves cyclic pressure strength of piping systems
- Superior direct and reverse impact strength
- Fast wet-out
- Designed for optimum neck-down properties
- Print blocker

## Product Information

### The Premier Synthetic Surfacing Veil for the FRP Industry

Style	Unit	111-10	100-10	039-10	100-00	115-05	700-05
<i>Basis Weight</i> (ASTM D3776)	(oz/y <sup>2</sup> )	0.9 – 1.1	1.1 – 1.3	0.9 – 1.1	.9 – 1.3	1.5 - 1.7	1.8 - 2.0
	(g/m <sup>2</sup> )	31 – 37	38 – 44	31 – 37	31 – 44	51 - 58	60 - 68
<i>Caliper</i> (ASTM D1777)	(mil)	8 – 13	9 – 13	10 – 12	7 – 12	10 - 14	18 – 22
	(mm)	0.21 – 0.33	0.23 – 0.33	0.26 – 0.31	0.18-0.31	0.26 - 0.36	0.46- 0.56
<i>Grab Tensile</i> MD (ASTM D5034)	(lb)	18 – 24	20 – 26	18 – 26	22 – 24	30 – 32	23 - 42
	(kg)	8.2 – 10.9	9.1 – 11.8	8.2 – 11.8	10 – 10.9	13.6 – 14.5	10.5 – 19.1
	(lb)	10 – 13	10 – 16	10 – 13	11 – 14	16 – 20	18 - 22
	(kg)	4.5 – 5.9	4.5 – 7.3	4.5 – 5.9	5.0 – 6.4	7.3 – 9.1	8.2 - 10
<i>Elongation @ Break</i> MD (ASTM D5034)	%	30 – 32	50 – 75	24 – 35	33 – 50	32 - 65	40 – 70
	%	110 – 112	75 – 100	95 – 100	75 – 119	100 - 125	100 - 125
<i>Modulus @ 10% Elongation</i> MD (ASTM D885M VAR.)	(lb)	5 – 10	5 – 8	8 – 27	6 – 9	6 – 9	10 – 13
	(kg)	2.3 – 4.5	2.3 – 3.6	3.6 – 12.2	2.7 - 4.1	2.7 - 4.1	4.5 – 5.9
<i>Fiber Elongation @ Break</i>	%	25	25	25	25	25	25
<i>Fiber Softening Point</i> (PFG Method)	°F	460	460	460	460	460	460
	°C	237	237	237	237	237	237
<i>Fiber Melting Point</i> (PFG Method)	°F	483	483	483	483	483	483
	°C	250	250	250	250	250	250
<i>U.V. Resistance Comment</i>		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
<i>Recommended Process</i> P = Pultrusion C = Open and Closed Molding		P	C	P	P	P C	C

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