



190U VPLY

Fiber Type: E-Glass
 Architecture: 0 Warp Unidirectional
 Dry Thickness: 0.060 in. / 1.52 mm
 Total Weight: 54.33 oz/sq.yd / 1842 g/sq.m

VECTOR *WIND*

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	50.97 oz/sq.yd / 1728 g/sq.m
50 in / 1270 mm	269 lb / 122 kg	56 yd / 51 m	45 ° :	n/a
			90 ° :	3.36 oz/sq.yd / 114 g/sq.m
			-45 ° :	n/a
			Chopped Mat :	n/a

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight		
(lb/sq.ft)	190U VPLY Resin Infused	190U VPLY Open Mold
Fiber	0.38	0.38
Resin	0.16	0.31
Total	0.54	0.69

Physical Properties		
	190U VPLY Resin Infused	190U VPLY Open Mold
Density (g/cc)	1.90	1.69
Fiber Content (% by Wt.)	70%	55%
Thickness (in)	0.054	0.078

Laminate Modulii		
(MSI)	190U VPLY Resin Infused	190U VPLY Open Mold
Ex	5.48	4.01
Ey	2.31	1.62
Gxy	0.66	0.47
Ex,flex.	5.21	3.81
Ey,flex.	2.19	1.54

Ultimate Stress		
(KSI)	190U VPLY Resin Infused	190U VPLY Open Mold
Long. Ten.	104	76
Long. Comp.	104	76
Trans. Ten.	44	31
Trans. Comp.	44	31
In-Plane Shear	13	9
Long. Flex.	124	91
Trans. Flex.	52	37

In-Plane Stiffness, "EA"		
10 ³ lb/in	190U VPLY Resin Infused	190U VPLY Open Mold
(EA)x	299	313
(EA)y	126	126
(GA)xy	36	37

Ultimate In-Plane Load		
lb/in	190U VPLY Resin Infused	190U VPLY Open Mold
Long. Ten.	5,655	5,917
Long. Comp.	5,655	5,917
Trans. Ten.	2,381	2,388
Trans. Comp.	2,381	2,388
In-Plane Shear	716	733

Notes:

- 1: Resin infused laminate made with a poly / vinyl ester resin blend.
- 2: Open mold laminate made with poly / vinyl ester resin blend.
- 3: All standard reinforcements should be infused with a flow aid or Vectorfusion® reinforcements.



3500 Lakewood Dr. Phenix City, AL 36867 tel. 334 291 7704 fax. 334 291 7743

REV: 5/3/2011

Disclaimer:

As a service to customers, Vectorply Corporation ("VP") may provide computer-generated predictions of the physical performance of a product using a reinforcement fabric produced by VP in combination with other materials or systems.

VP makes no warranty whatsoever as to the accuracy of any such predicted physical performance, and customer acknowledges that customer is solely responsible for determining the performance and fitness for a particular use of any product produced by customer utilizing a fabric or material produced or manufactured by VP. Specifications of reinforcements may change without notice.