



C-L 1800

Fiber Type: Carbon
 Architecture: 0 Warp Unidirectional
 Dry Thickness: 0.026 in. / 0.66 mm
 Total Weight: 17.40 oz/sq.yd / 590 g/sq.m

VECTORULTRA[™]

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	17.40 oz/sq.yd / 590 g/sq.m
24 in / 610 mm	73 lb / 33 kg	100 yd / 91 m	45 ° :	n/a
			90 ° :	n/a
			-45 ° :	n/a
			Chopped Mat :	n/a

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminated Properties		
Laminate Weight (lb/sq.ft)	C-L 1800 Resin Infused	C-L 1800 Open Mold
Fiber	0.12	0.12
Resin	0.07	0.15
Total	0.19	0.27

Physical Properties		
	C-L 1800 Resin Infused	C-L 1800 Open Mold
Density (g/cc)	1.53	1.41
Fiber Content (% by Wt.)	64%	45%
Thickness (in)	0.024	0.037

Laminate Modulii		
(MSI)	C-L 1800 Resin Infused	C-L 1800 Open Mold
Ex	16.56	10.99
Ey	1.43	1.08
Gxy	0.59	0.42
Ex,flex.	15.73	10.44
Ey,flex.	1.36	1.03

Ultimate Stress		
(KSI)	C-L 1800 Resin Infused	C-L 1800 Open Mold
Long. Ten.	199	132
Long. Comp.	127	84
Trans. Ten.	4	4
Trans. Comp.	16	15
In-Plane Shear	8	7
Long. Flex.	121	80
Trans. Flex.	4	4

In-Plane Stiffness, "EA"		
10 ³ lb/in	C-L 1800 Resin Infused	C-L 1800 Open Mold
(EA)x	394	402
(EA)y	34	39
(GA)xy	14	15

Ultimate In-Plane Load		
lb/in	C-L 1800 Resin Infused	C-L 1800 Open Mold
Long. Ten.	4,728	4,823
Long. Comp.	3,021	3,081
Trans. Ten.	101	148
Trans. Comp.	383	562
In-Plane Shear	187	274

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.



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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 utilising a fabric or material produced or manufactured by VP. Specifications of reinforcements may change without notice.