



C-L 1800

Fiber Type: Carbon
 Architecture: 0° Unidirectional
 Dry Thickness: 0.027 in. / 0.69 mm
 Total Weight: 17.69 oz/sq.yd / 600 g/sq.m

VECTORULTRA™

Roll Specifications			Fiber Architecture Data	
Roll Width: 24 in / 610 mm	Roll Weight: 74 lb / 34 kg	Roll Length: 100 yd / 91 m	0 ° : 17.69 oz/sq.yd / 600 g/sq.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 °

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.)	65%	45%
Thickness (in)	0.024	0.037

Laminate Moduli		
(MSI)	C-L 1800 Resin Infused	C-L 1800 Open Mold
Ex	16.81	10.99
Ey	0.61	0.61
Gxy	0.37	0.25
Ex,flex.	15.92	10.39
Ey,flex.	0.58	0.58

Ultimate Stress		
(KSI)	C-L 1800 Resin Infused	C-L 1800 Open Mold
Long. Ten.	202	132
Long. Comp.	129	84
Trans. Ten.	5	5
Trans. Comp.	19	19
In-Plane Shear	8	7
Long. Flex.	129	84
Trans. Flex.	5	5

In-Plane Stiffness, "EA"		
10 ^{^3} lb/in	C-L 1800 Resin Infused	C-L 1800 Open Mold
(EA)x	400	409
(EA)y	15	23
(GA)xy	9	9

Ultimate In-Plane Load		
lb/in	C-L 1800 Resin Infused	C-L 1800 Open Mold
Long. Ten.	4,803	4,903
Long. Comp.	3,069	3,132
Trans. Ten.	120	187
Trans. Comp.	455	712
In-Plane Shear	186	274

Notes:

- 1: Resin infused laminate made with vinyl ester resin 200 cps viscosity @ 77° F.
- 2: Open mold laminate made with polyester resin.
- 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 utilizing a fabric or material produced or manufactured by VP. Specifications of reinforcements may change without notice.