



C-LA 1812

Fiber Type: Carbon
 Architecture: 0° Unidirectional
 Dry Thickness: 0.039 in. / 0.991 mm
 Total Weight: 18.80 oz/sq.yd / 637.4 g/sq.m

VECTORULTRA™

Roll Specifications

Roll Width: 50 in / 1270 mm
 Roll Weight: 149 lb / 68 kg
 Roll Length: 89 yd / 81 m

Fiber Architecture Data

0° : 17.60 oz/sq.yd / 596.7 g/sq.m
 45° : n/a
 90° : n/a
 - 45° : n/a
 A-Glass Veil : 1.20 oz/sq.yd / 40.7 g/sq.m

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0°

0°

Laminate Weight

(lb/sq.ft)	C-LA 1812 Resin Infused	C-LA 1812 Open Mold
Fiber	0.13	0.13
Resin	0.07	0.16
Total	0.20	0.29

Physical Properties

	C-LA 1812 Resin Infused	C-LA 1812 Open Mold
Density (g/cc)	1.55	1.42
Fiber Content (% by Wt.)	65%	45%
Thickness (in)	0.025	0.039

Laminate Moduli		
(MSI)	C-LA 1812 Resin Infused	C-LA 1812 Open Mold
Ex	14.51	9.48
Ey	0.73	0.69
Gxy	0.41	0.27
Ex,flex.	13.72	8.94
Ey,flex.	0.69	0.65

Ultimate Stress		
(KSI)	C-LA 1812 Resin Infused	C-LA 1812 Open Mold
Long. Ten.	147	96
Long. Comp.	124	81
Trans. Ten.	14	13
Trans. Comp.	18	17
In-Plane Shear	11	7
Long. Flex.	124	81
Trans. Flex.	21	23

In-Plane Stiffness, "EA"		
10 ³ lb/in	C-LA 1812 Resin Infused	C-LA 1812 Open Mold
(EA)x	362	371
(EA)y	18	27
(GA)xy	10	10

Ultimate In-Plane Load		
lb/in	C-LA 1812 Resin Infused	C-LA 1812 Open Mold
Long. Ten.	3,678	3,766
Long. Comp.	3,088	3,161
Trans. Ten.	338	496
Trans. Comp.	444	653
In-Plane Shear	280	290

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.



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

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.