



C-LT 1800

Fiber Type: Carbon
 Architecture: 0/90 Biaxial
 Dry Thickness: 0.035 in. / 0.89 mm
 Total Weight: 19.14 oz/sq.yd / 649 g/sq.m

VECTORULTRA™
 ADVANCED COMPOSITE REINFORCEMENTS

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 116 lb / 53 kg	Roll Length: 69 yd / 63 m	0 ° : 9.57 oz/sq.yd / 324 g/sq.m	
			45 ° : n/a	
			90 ° : 9.57 oz/sq.yd / 324 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				
	C-LT 1800 Resin Infused		C-LT 1800 Open Mold	
Fiber	0.13 lb/sq.ft	0.65 kg/sq.m	0.13 lb/sq.ft	0.65 kg/sq.m
Resin	0.07 lb/sq.ft	0.37 kg/sq.m	0.16 lb/sq.ft	0.79 kg/sq.m
Total	0.21 lb/sq.ft	1.01 kg/sq.m	0.30 lb/sq.ft	1.44 kg/sq.m

Physical Properties				
	C-LT 1800 Resin Infused		C-LT 1800 Open Mold	
Density	0.88 oz/cu.in	1.53 g/cc	0.82 oz/cu.in	1.41 g/cc
Fiber Content	64% by Wt.	54% by Vol.	45% by Wt.	35% by Vol.
Thickness	0.026 in	0.7 mm	0.040 in	1.0 mm

Laminate Moduli

	C-LT 1800 Resin Infused		C-LT 1800 Open Mold	
	Ex	8.97 MSI	61.86 GPa	6.06 MSI
Ey	8.97 MSI	61.86 GPa	6.06 MSI	41.80 GPa
Gxy	0.59 MSI	4.09 GPa	0.42 MSI	2.91 GPa
Ex,flex.	8.52 MSI	58.77 GPa	5.76 MSI	39.71 GPa
Ey,flex.	8.52 MSI	58.77 GPa	5.76 MSI	39.71 GPa

Ultimate Stress

	C-LT 1800 Resin Infused		C-LT 1800 Open Mold	
	Long. Ten.	98.8 KSI	681.5 MPa	66.8 KSI
Long. Comp.	70.1 KSI	483.4 MPa	47.4 KSI	326.7 MPa
Trans. Ten.	98.8 KSI	681.5 MPa	66.8 KSI	460.5 MPa
Trans. Comp.	70.1 KSI	483.4 MPa	47.4 KSI	326.7 MPa
In-Plane Shear	11.9 KSI	81.8 MPa	8.4 KSI	58.2 MPa
Long. Flex.	62.3 KSI	429.3 MPa	42.1 KSI	290.1 MPa
Trans. Flex.	62.3 KSI	429.3 MPa	42.1 KSI	290.1 MPa

In-Plane Stiffness, "EA"

	C-LT 1800 Resin Infused		C-LT 1800 Open Mold	
	(EA)x	234,867 lb/in	41,129 N/mm	243,880 lb/in
(EA)y	234,867 lb/in	41,129 N/mm	243,880 lb/in	42,708 N/mm
(GA)xy	15,538 lb/in	2,721 N/mm	16,970 lb/in	2,972 N/mm

Ultimate In-Plane Load

	C-LT 1800 Resin Infused		C-LT 1800 Open Mold	
	Long. Ten.	2,588 lb/in	453 N/mm	2,687 lb/in
Long. Comp.	1,835 lb/in	321 N/mm	1,906 lb/in	334 N/mm
Trans. Ten.	2,588 lb/in	453 N/mm	2,687 lb/in	471 N/mm
Trans. Comp.	1,835 lb/in	321 N/mm	1,906 lb/in	334 N/mm
In-Plane Shear	311 lb/in	54 N/mm	339 lb/in	59 N/mm

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.
- 4: All properties are given assuming a symmetric or quasisymmetric laminate schedule.



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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.