



## C-QX 1800

Fiber Type: Carbon  
 Architecture: 0°/+45°/90°/-45° Quadaxial  
 Dry Thickness: 0.035 in. / 0.89 mm  
 Total Weight: 18.00 oz/sq.yd / 610 g/sq.m

**VECTORULTRA™**



### Roll Specifications

Roll Width: 50 in / 1270 mm  
 Roll Weight: 113 lb / 51 kg  
 Roll Length: 72 yd / 66 m

### Fiber Architecture Data

0 ° : 4.63 oz/sq.yd / 157 g/sq.m  
 45 ° : 4.37 oz/sq.yd / 148 g/sq.m  
 90 ° : 4.63 oz/sq.yd / 157 g/sq.m  
 - 45 ° : 4.37 oz/sq.yd / 148 g/sq.m  
 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-QX 1800 Resin Infused	C-QX 1800 Open Mold
Fiber	0.13	0.13
Resin	0.07	0.15
Total	0.19	0.28

### Physical Properties

	C-QX 1800 Resin Infused	C-QX 1800 Open Mold
Density (g/cc)	1.53	1.41
Fiber Content (% by Wt.)	65%	45%
Thickness (in)	0.024	0.038

Laminate Moduli		
(MSI)	C-QX 1800 Resin Infused	C-QX 1800 Open Mold
Ex	6.21	4.13
Ey	6.21	4.13
Gxy	2.27	1.50
Ex,flex.	5.35	3.54
Ey,flex.	5.35	3.54

Ultimate Stress		
(KSI)	C-QX 1800 Resin Infused	C-QX 1800 Open Mold
Long. Ten.	75	50
Long. Comp.	48	32
Trans. Ten.	75	50
Trans. Comp.	48	32
In-Plane Shear	26	17
Long. Flex.	48	32
Trans. Flex.	48	32

In-Plane Stiffness, "EA"		
10 <sup>^3</sup> lb/in	C-QX 1800 Resin Infused	C-QX 1800 Open Mold
(EA)x	150	156
(EA)y	150	156
(GA)xy	55	57

Ultimate In-Plane Load		
lb/in	C-QX 1800 Resin Infused	C-QX 1800 Open Mold
Long. Ten.	1,806	1,874
Long. Comp.	1,154	1,198
Trans. Ten.	1,806	1,874
Trans. Comp.	1,154	1,198
In-Plane Shear	632	651

**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.