



## C-BX 0600

Fiber Type: Carbon  
 Architecture: 45/-45 Double Bias  
 Dry Thickness: 0.012 in. / 0.30 mm  
 Total Weight: 5.94 oz/sq.yd / 201 g/sq.m

**VECTORULTRA™**  
 ADVANCED COMPOSITE REINFORCEMENTS

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	88 lb / 40 kg	171 yd / 156 m	45 ° :	2.97 oz/sq.yd / 101 g/sq.m
			90 ° :	n/a
			-45 ° :	2.97 oz/sq.yd / 101 g/sq.m
			Chopped Mat :	n/a

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

### Laminated Properties

45 °

45 °

Laminate Weight				
	C-BX 0600 Resin Infused		C-BX 0600 Open Mold	
Fiber	0.04 lb/sq.ft	0.20 kg/sq.m	0.04 lb/sq.ft	0.20 kg/sq.m
Resin	0.02 lb/sq.ft	0.11 kg/sq.m	0.05 lb/sq.ft	0.25 kg/sq.m
Total	0.06 lb/sq.ft	0.31 kg/sq.m	0.09 lb/sq.ft	0.45 kg/sq.m

Physical Properties				
	C-BX 0600 Resin Infused		C-BX 0600 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	0.008 in	0.2 mm	0.012 in	0.3 mm

**Laminate Moduli**

	C-BX 0600 Resin Infused		C-BX 0600 Open Mold	
	Ex	8.40 MSI	57.91 GPa	5.69 MSI
Ey	8.40 MSI	57.91 GPa	5.69 MSI	39.23 GPa
Gxy	0.59 MSI	4.09 GPa	0.42 MSI	2.91 GPa
Ex,flex.	7.98 MSI	55.02 GPa	5.41 MSI	37.27 GPa
Ey,flex.	7.98 MSI	55.02 GPa	5.41 MSI	37.27 GPa

**Ultimate Stress**

	C-BX 0600 Resin Infused		C-BX 0600 Open Mold	
	Long. Ten.	79.4 KSI	547.4 MPa	53.8 KSI
Long. Comp.	73.4 KSI	505.9 MPa	49.7 KSI	342.7 MPa
Trans. Ten.	79.4 KSI	547.4 MPa	53.8 KSI	370.9 MPa
Trans. Comp.	73.4 KSI	505.9 MPa	49.7 KSI	342.7 MPa
In-Plane Shear	11.9 KSI	81.8 MPa	8.4 KSI	58.2 MPa
Long. Flex.	77.8 KSI	536.4 MPa	52.7 KSI	363.4 MPa
Trans. Flex.	77.8 KSI	536.4 MPa	52.7 KSI	363.4 MPa

**In-Plane Stiffness, "EA"**

	C-BX 0600 Resin Infused		C-BX 0600 Open Mold	
	(EA)x	68,263 lb/in	11,954 N/mm	71,059 lb/in
(EA)y	68,263 lb/in	11,954 N/mm	71,059 lb/in	12,444 N/mm
(GA)xy	4,822 lb/in	844 N/mm	5,267 lb/in	922 N/mm

**Ultimate In-Plane Load**

	C-BX 0600 Resin Infused		C-BX 0600 Open Mold	
	Long. Ten.	645 lb/in	113 N/mm	672 lb/in
Long. Comp.	596 lb/in	104 N/mm	621 lb/in	109 N/mm
Trans. Ten.	645 lb/in	113 N/mm	672 lb/in	118 N/mm
Trans. Comp.	596 lb/in	104 N/mm	621 lb/in	109 N/mm
In-Plane Shear	96 lb/in	17 N/mm	105 lb/in	18 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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REV: 7/8/2015

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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.