



## C-BX 1200

Fiber Type: Carbon  
 Architecture: 45/-45 Double Bias  
 Dry Thickness: 0.025 in. / 0.64 mm  
 Total Weight: 11.80 oz/sq.yd / 400 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	113 lb / 51 kg	109 yd / 100 m	45 ° :	5.90 oz/sq.yd / 200 g/sq.m
			90 ° :	n/a
			-45 ° :	5.90 oz/sq.yd / 200 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 1200 Resin Infused		C-BX 1200 Open Mold	
Fiber	0.08 lb/sq.ft	0.40 kg/sq.m	0.08 lb/sq.ft	0.40 kg/sq.m
Resin	0.05 lb/sq.ft	0.23 kg/sq.m	0.10 lb/sq.ft	0.49 kg/sq.m
Total	0.13 lb/sq.ft	0.63 kg/sq.m	0.18 lb/sq.ft	0.89 kg/sq.m

Physical Properties				
	C-BX 1200 Resin Infused		C-BX 1200 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	0.016 in	0.4 mm	0.025 in	0.6 mm

**Laminate Moduli**

	C-BX 1200 Resin Infused		C-BX 1200 Open Mold	
	Ex	8.40 MSI	57.93 GPa	5.69 MSI
Ey	8.40 MSI	57.93 GPa	5.69 MSI	39.24 GPa
Gxy	0.59 MSI	4.09 GPa	0.42 MSI	2.91 GPa
Ex,flex.	7.98 MSI	55.03 GPa	5.41 MSI	37.28 GPa
Ey,flex.	7.98 MSI	55.03 GPa	5.41 MSI	37.28 GPa

**Ultimate Stress**

	C-BX 1200 Resin Infused		C-BX 1200 Open Mold	
	Long. Ten.	79.4 KSI	547.6 MPa	53.8 KSI
Long. Comp.	73.4 KSI	506.0 MPa	49.7 KSI	342.8 MPa
Trans. Ten.	79.4 KSI	547.6 MPa	53.8 KSI	370.9 MPa
Trans. Comp.	73.4 KSI	506.0 MPa	49.7 KSI	342.8 MPa
In-Plane Shear	11.9 KSI	81.8 MPa	8.4 KSI	58.2 MPa
Long. Flex.	77.8 KSI	536.6 MPa	52.7 KSI	363.5 MPa
Trans. Flex.	77.8 KSI	536.6 MPa	52.7 KSI	363.5 MPa

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

	C-BX 1200 Resin Infused		C-BX 1200 Open Mold	
	(EA)x	135,605 lb/in	23,747 N/mm	141,159 lb/in
(EA)y	135,605 lb/in	23,747 N/mm	141,159 lb/in	24,720 N/mm
(GA)xy	9,579 lb/in	1,678 N/mm	10,462 lb/in	1,832 N/mm

**Ultimate In-Plane Load**

	C-BX 1200 Resin Infused		C-BX 1200 Open Mold	
	Long. Ten.	1,282 lb/in	224 N/mm	1,334 lb/in
Long. Comp.	1,185 lb/in	207 N/mm	1,233 lb/in	216 N/mm
Trans. Ten.	1,282 lb/in	224 N/mm	1,334 lb/in	234 N/mm
Trans. Comp.	1,185 lb/in	207 N/mm	1,233 lb/in	216 N/mm
In-Plane Shear	192 lb/in	34 N/mm	209 lb/in	37 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:**

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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.