



C-BX 0450

Fiber Type: Carbon
 Architecture: +45°/-45° Double Bias
 Dry Thickness: 0.006 in. / 0.14 mm
 Total Weight: 4.42 oz/sq.yd / 150 g/sq.m

VECTORULTRA™

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	63 lb / 29 kg	164 yd / 150 m	45 ° :	2.21 oz/sq.yd / 75 g/sq.m
			90 ° :	n/a
			- 45 ° :	2.21 oz/sq.yd / 75 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		
(lb/sq.ft)	C-BX 0450 Resin Infused	C-BX 0450 Open Mold
Fiber	0.03	0.03
Resin	0.02	0.04
Total	0.05	0.07

Physical Properties

	C-BX 0450 Resin Infused	C-BX 0450 Open Mold
Density (g/cc)	1.53	1.41
Fiber Content (% by Wt.)	65%	45%
Thickness (in)	0.006	0.009

Laminate Moduli		
(MSI)	C-BX 0450 Resin Infused	C-BX 0450 Open Mold
Ex	8.52	5.69
Ey	8.52	5.69
Gxy	0.37	0.25
Ex,flex.	8.09	5.40
Ey,flex.	8.09	5.40

Ultimate Stress		
(KSI)	C-BX 0450 Resin Infused	C-BX 0450 Open Mold
Long. Ten.	81	54
Long. Comp.	74	50
Trans. Ten.	81	54
Trans. Comp.	74	50
In-Plane Shear	7	5
Long. Flex.	83	55
Trans. Flex.	83	55

In-Plane Stiffness, "EA"		
10 ³ lb/in	C-BX 0450 Resin Infused	C-BX 0450 Open Mold
(EA)x	51	53
(EA)y	51	53
(GA)xy	2	2

Ultimate In-Plane Load		
lb/in	C-BX 0450 Resin Infused	C-BX 0450 Open Mold
Long. Ten.	480	500
Long. Comp.	443	462
Trans. Ten.	480	500
Trans. Comp.	443	462
In-Plane Shear	44	46

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.