



C-BX 2400

Fiber Type: Carbon
 Architecture: 45/-45 Double Bias
 Dry Thickness: 0.048 in. / 1.22 mm
 Total Weight: 24.11 oz/sq.yd / 818 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	116 lb / 53 kg	55 yd / 50 m	45 ° :	12.06 oz/sq.yd / 409 g/sq.m
			90 ° :	n/a
			-45 ° :	12.06 oz/sq.yd / 409 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 2400 Resin Infused		C-BX 2400 Open Mold	
Fiber	0.17 lb/sq.ft	0.82 kg/sq.m	0.17 lb/sq.ft	0.82 kg/sq.m
Resin	0.09 lb/sq.ft	0.46 kg/sq.m	0.20 lb/sq.ft	1.00 kg/sq.m
Total	0.26 lb/sq.ft	1.28 kg/sq.m	0.37 lb/sq.ft	1.82 kg/sq.m

Physical Properties				
	C-BX 2400 Resin Infused		C-BX 2400 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	0.033 in	0.8 mm	0.051 in	1.3 mm

Laminate Moduli

	C-BX 2400 Resin Infused		C-BX 2400 Open Mold	
	Ex	9.08 MSI	62.61 GPa	6.13 MSI
Ey	9.08 MSI	62.61 GPa	6.13 MSI	42.29 GPa
Gxy	0.59 MSI	4.09 GPa	0.42 MSI	2.91 GPa
Ex,flex.	8.63 MSI	59.48 GPa	5.83 MSI	40.17 GPa
Ey,flex.	8.63 MSI	59.48 GPa	5.83 MSI	40.17 GPa

Ultimate Stress

	C-BX 2400 Resin Infused		C-BX 2400 Open Mold	
	Long. Ten.	74.6 KSI	514.7 MPa	50.4 KSI
Long. Comp.	40.6 KSI	280.0 MPa	27.4 KSI	189.1 MPa
Trans. Ten.	74.6 KSI	514.7 MPa	50.4 KSI	347.6 MPa
Trans. Comp.	40.6 KSI	280.0 MPa	27.4 KSI	189.1 MPa
In-Plane Shear	11.9 KSI	81.8 MPa	8.4 KSI	58.2 MPa
Long. Flex.	54.1 KSI	372.8 MPa	36.5 KSI	251.8 MPa
Trans. Flex.	54.1 KSI	372.8 MPa	36.5 KSI	251.8 MPa

In-Plane Stiffness, "EA"

	C-BX 2400 Resin Infused		C-BX 2400 Open Mold	
	(EA)x	299,431 lb/in	52,436 N/mm	310,786 lb/in
(EA)y	299,431 lb/in	52,436 N/mm	310,786 lb/in	54,424 N/mm
(GA)xy	19,572 lb/in	3,427 N/mm	21,376 lb/in	3,743 N/mm

Ultimate In-Plane Load

	C-BX 2400 Resin Infused		C-BX 2400 Open Mold	
	Long. Ten.	2,461 lb/in	431 N/mm	2,555 lb/in
Long. Comp.	1,339 lb/in	235 N/mm	1,390 lb/in	243 N/mm
Trans. Ten.	2,461 lb/in	431 N/mm	2,555 lb/in	447 N/mm
Trans. Comp.	1,339 lb/in	235 N/mm	1,390 lb/in	243 N/mm
In-Plane Shear	391 lb/in	69 N/mm	428 lb/in	75 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.