



E-BX 2400

Fiber Type: E-Glass
 Architecture: 45/-45 Double Bias
 Dry Thickness: 0.029 in. / 0.74 mm
 Total Weight: 24.20 oz/sq.yd / 821 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 228 lb / 104 kg	Roll Length: 105 yd / 96 m	0 ° : n/a	
			45 ° : 12.10 oz/sq.yd / 410 g/sq.m	
			90 ° : n/a	
			-45 ° : 12.10 oz/sq.yd / 410 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				
	E-BX 2400 Resin Infused		E-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	0.07 lb/sq.ft	0.35 kg/sq.m	0.14 lb/sq.ft	0.67 kg/sq.m
Total	0.24 lb/sq.ft	1.17 kg/sq.m	0.31 lb/sq.ft	1.49 kg/sq.m

Physical Properties				
	E-BX 2400 Resin Infused		E-BX 2400 Open Mold	
Density	1.10 oz/cu.in	1.90 g/cc	0.98 oz/cu.in	1.69 g/cc
Fiber Content	70% by Wt.	52% by Vol.	55% by Wt.	37% by Vol.
Thickness	0.024 in	0.6 mm	0.035 in	0.9 mm

Laminate Moduli

	E-BX 2400 Resin Infused		E-BX 2400 Open Mold	
	Ex	3.48 MSI	23.98 GPa	2.57 MSI
Ey	3.48 MSI	23.98 GPa	2.57 MSI	17.73 GPa
Gxy	0.47 MSI	3.25 GPa	0.36 MSI	2.51 GPa
Ex,flex.	3.30 MSI	22.78 GPa	2.44 MSI	16.84 GPa
Ey,flex.	3.30 MSI	22.78 GPa	2.44 MSI	16.84 GPa

Ultimate Stress

	E-BX 2400 Resin Infused		E-BX 2400 Open Mold	
	Long. Ten.	65.9 KSI	454.1 MPa	48.7 KSI
Long. Comp.	65.9 KSI	454.1 MPa	48.7 KSI	335.6 MPa
Trans. Ten.	65.9 KSI	454.1 MPa	48.7 KSI	335.6 MPa
Trans. Comp.	65.9 KSI	454.1 MPa	48.7 KSI	335.6 MPa
In-Plane Shear	9.4 KSI	65.0 MPa	7.3 KSI	50.2 MPa
Long. Flex.	78.6 KSI	542.0 MPa	58.1 KSI	400.6 MPa
Trans. Flex.	78.6 KSI	542.0 MPa	58.1 KSI	400.6 MPa

In-Plane Stiffness, "EA"

	E-BX 2400 Resin Infused		E-BX 2400 Open Mold	
	(EA)x	84,399 lb/in	14,780 N/mm	89,352 lb/in
(EA)y	84,399 lb/in	14,780 N/mm	89,352 lb/in	15,647 N/mm
(GA)xy	11,441 lb/in	2,004 N/mm	12,654 lb/in	2,216 N/mm

Ultimate In-Plane Load

	E-BX 2400 Resin Infused		E-BX 2400 Open Mold	
	Long. Ten.	1,598 lb/in	280 N/mm	1,692 lb/in
Long. Comp.	1,598 lb/in	280 N/mm	1,692 lb/in	296 N/mm
Trans. Ten.	1,598 lb/in	280 N/mm	1,692 lb/in	296 N/mm
Trans. Comp.	1,598 lb/in	280 N/mm	1,692 lb/in	296 N/mm
In-Plane Shear	229 lb/in	40 N/mm	253 lb/in	44 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.