



E-BX 4000

Fiber Type: E-Glass
 Architecture: 45/-45 Double Bias
 Dry Thickness: 0.042 in. / 1.07 mm
 Total Weight: 39.42 oz/sq.yd / 1337 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 220 lb / 100 kg	Roll Length: 63 yd / 58 m	0 ° : n/a	
			45 ° : 19.71 oz/sq.yd / 668 g/sq.m	
			90 ° : n/a	
			-45 ° : 19.71 oz/sq.yd / 668 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 4000 Resin Infused		E-BX 4000 Open Mold	
Fiber	0.27 lb/sq.ft	1.34 kg/sq.m	0.17 lb/sq.ft	0.82 kg/sq.m
Resin	0.12 lb/sq.ft	0.57 kg/sq.m	0.20 lb/sq.ft	1.00 kg/sq.m
Total	0.39 lb/sq.ft	1.91 kg/sq.m	0.37 lb/sq.ft	1.82 kg/sq.m

Physical Properties				
	E-BX 4000 Resin Infused		E-BX 4000 Open Mold	
Density	1.10 oz/cu.in	1.90 g/cc	0.82 oz/cu.in	1.41 g/cc
Fiber Content	70% by Wt.	52% by Vol.	45% by Wt.	35% by Vol.
Thickness	0.040 in	1.0 mm	0.051 in	1.3 mm

Laminate Moduli

	E-BX 4000 Resin Infused		E-BX 4000 Open Mold	
	Ex	3.91 MSI	26.96 GPa	6.13 MSI
Ey	3.91 MSI	26.96 GPa	6.13 MSI	42.29 GPa
Gxy	0.66 MSI	4.53 GPa	0.42 MSI	2.91 GPa
Ex,flex.	3.71 MSI	25.61 GPa	5.83 MSI	40.17 GPa
Ey,flex.	3.71 MSI	25.61 GPa	5.83 MSI	40.17 GPa

Ultimate Stress

	E-BX 4000 Resin Infused		E-BX 4000 Open Mold	
	Long. Ten.	74.0 KSI	510.4 MPa	50.4 KSI
Long. Comp.	74.0 KSI	510.4 MPa	27.4 KSI	189.1 MPa
Trans. Ten.	74.0 KSI	510.4 MPa	50.4 KSI	347.6 MPa
Trans. Comp.	74.0 KSI	510.4 MPa	27.4 KSI	189.1 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	8.4 KSI	58.2 MPa
Long. Flex.	88.4 KSI	609.2 MPa	36.5 KSI	251.8 MPa
Trans. Flex.	88.4 KSI	609.2 MPa	36.5 KSI	251.8 MPa

In-Plane Stiffness, "EA"

	E-BX 4000 Resin Infused		E-BX 4000 Open Mold	
	(EA)x	154,527 lb/in	27,061 N/mm	310,786 lb/in
(EA)y	154,527 lb/in	27,061 N/mm	310,786 lb/in	54,424 N/mm
(GA)xy	25,978 lb/in	4,549 N/mm	21,376 lb/in	3,743 N/mm

Ultimate In-Plane Load

	E-BX 4000 Resin Infused		E-BX 4000 Open Mold	
	Long. Ten.	2,926 lb/in	512 N/mm	2,555 lb/in
Long. Comp.	2,926 lb/in	512 N/mm	1,390 lb/in	243 N/mm
Trans. Ten.	2,926 lb/in	512 N/mm	2,555 lb/in	447 N/mm
Trans. Comp.	2,926 lb/in	512 N/mm	1,390 lb/in	243 N/mm
In-Plane Shear	520 lb/in	91 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.