



E-BX 1700

Fiber Type: E-Glass
 Architecture: 45/-45 Double Bias
 Dry Thickness: 0.026 in. / 0.66 mm
 Total Weight: 18.14 oz/sq.yd / 615 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	201 lb / 91 kg	125 yd / 114 m	45 ° :	9.07 oz/sq.yd / 308 g/sq.m
			90 ° :	n/a
			-45 ° :	9.07 oz/sq.yd / 308 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 1700 Resin Infused		E-BX 1700 Open Mold	
Fiber	0.13 lb/sq.ft	0.62 kg/sq.m	0.13 lb/sq.ft	0.62 kg/sq.m
Resin	0.05 lb/sq.ft	0.26 kg/sq.m	0.10 lb/sq.ft	0.50 kg/sq.m
Total	0.18 lb/sq.ft	0.88 kg/sq.m	0.23 lb/sq.ft	1.12 kg/sq.m

Physical Properties				
	E-BX 1700 Resin Infused		E-BX 1700 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	0.018 in	0.5 mm	0.026 in	0.7 mm

Laminate Moduli

	E-BX 1700 Resin Infused		E-BX 1700 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	0.57 MSI	3.93 GPa	0.42 MSI	2.89 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 1700 Resin Infused		E-BX 1700 Open Mold	
	Long. Ten.	65.9 KSI	454.0 MPa	48.7 KSI
Long. Comp.	65.9 KSI	454.0 MPa	48.7 KSI	335.6 MPa
Trans. Ten.	65.9 KSI	454.0 MPa	48.7 KSI	335.6 MPa
Trans. Comp.	65.9 KSI	454.0 MPa	48.7 KSI	335.6 MPa
In-Plane Shear	11.4 KSI	78.5 MPa	8.4 KSI	57.8 MPa
Long. Flex.	78.6 KSI	541.9 MPa	58.1 KSI	400.6 MPa
Trans. Flex.	78.6 KSI	541.9 MPa	58.1 KSI	400.6 MPa

In-Plane Stiffness, "EA"

	E-BX 1700 Resin Infused		E-BX 1700 Open Mold	
	(EA)x	63,265 lb/in	11,079 N/mm	66,978 lb/in
(EA)y	63,265 lb/in	11,079 N/mm	66,978 lb/in	11,729 N/mm
(GA)xy	10,356 lb/in	1,813 N/mm	10,917 lb/in	1,912 N/mm

Ultimate In-Plane Load

	E-BX 1700 Resin Infused		E-BX 1700 Open Mold	
	Long. Ten.	1,198 lb/in	210 N/mm	1,268 lb/in
Long. Comp.	1,198 lb/in	210 N/mm	1,268 lb/in	222 N/mm
Trans. Ten.	1,198 lb/in	210 N/mm	1,268 lb/in	222 N/mm
Trans. Comp.	1,198 lb/in	210 N/mm	1,268 lb/in	222 N/mm
In-Plane Shear	207 lb/in	36 N/mm	218 lb/in	38 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.