



E-BX 0900

Fiber Type: E-Glass
 Architecture: 45/-45 Double Bias
 Dry Thickness: 0.012 in. / 0.30 mm
 Total Weight: 9.86 oz/sq.yd / 334 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 194 lb / 88 kg	Roll Length: 210 yd / 192 m	0 ° : n/a	
			45 ° : 4.93 oz/sq.yd / 167 g/sq.m	
			90 ° : n/a	
			-45 ° : 4.93 oz/sq.yd / 167 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 0900 Resin Infused		E-BX 0900 Open Mold	
	Fiber	0.07 lb/sq.ft	0.33 kg/sq.m	0.07 lb/sq.ft
Resin	0.03 lb/sq.ft	0.14 kg/sq.m	0.06 lb/sq.ft	0.27 kg/sq.m
Total	0.10 lb/sq.ft	0.48 kg/sq.m	0.12 lb/sq.ft	0.61 kg/sq.m

Physical Properties

	E-BX 0900 Resin Infused		E-BX 0900 Open Mold	
	Density	1.10 oz/cu.in	1.90 g/cc	0.98 oz/cu.in
Fiber Content	70% by Wt.	52% by Vol.	55% by Wt.	37% by Vol.
Thickness	0.010 in	0.3 mm	0.014 in	0.4 mm

Laminate Moduli

	E-BX 0900 Resin Infused		E-BX 0900 Open Mold	
	Ex	3.91 MSI	26.95 GPa	2.82 MSI
Ey	3.91 MSI	26.95 GPa	2.82 MSI	19.46 GPa
Gxy	0.93 MSI	6.44 GPa	0.64 MSI	4.39 GPa
Ex,flex.	3.71 MSI	25.61 GPa	2.68 MSI	18.48 GPa
Ey,flex.	3.71 MSI	25.61 GPa	2.68 MSI	18.48 GPa

Ultimate Stress

	E-BX 0900 Resin Infused		E-BX 0900 Open Mold	
	Long. Ten.	74.0 KSI	510.3 MPa	53.4 KSI
Long. Comp.	74.0 KSI	510.3 MPa	53.4 KSI	368.3 MPa
Trans. Ten.	74.0 KSI	510.3 MPa	53.4 KSI	368.3 MPa
Trans. Comp.	74.0 KSI	510.3 MPa	53.4 KSI	368.3 MPa
In-Plane Shear	18.7 KSI	128.9 MPa	12.7 KSI	87.8 MPa
Long. Flex.	88.3 KSI	609.1 MPa	63.8 KSI	439.7 MPa
Trans. Flex.	88.3 KSI	609.1 MPa	63.8 KSI	439.7 MPa

In-Plane Stiffness, "EA"

	E-BX 0900 Resin Infused		E-BX 0900 Open Mold	
	(EA)x	38,652 lb/in	6,769 N/mm	39,965 lb/in
(EA)y	38,652 lb/in	6,769 N/mm	39,965 lb/in	6,999 N/mm
(GA)xy	9,240 lb/in	1,618 N/mm	9,016 lb/in	1,579 N/mm

Ultimate In-Plane Load

	E-BX 0900 Resin Infused		E-BX 0900 Open Mold	
	Long. Ten.	732 lb/in	128 N/mm	757 lb/in
Long. Comp.	732 lb/in	128 N/mm	757 lb/in	132 N/mm
Trans. Ten.	732 lb/in	128 N/mm	757 lb/in	132 N/mm
Trans. Comp.	732 lb/in	128 N/mm	757 lb/in	132 N/mm
In-Plane Shear	185 lb/in	32 N/mm	180 lb/in	32 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.