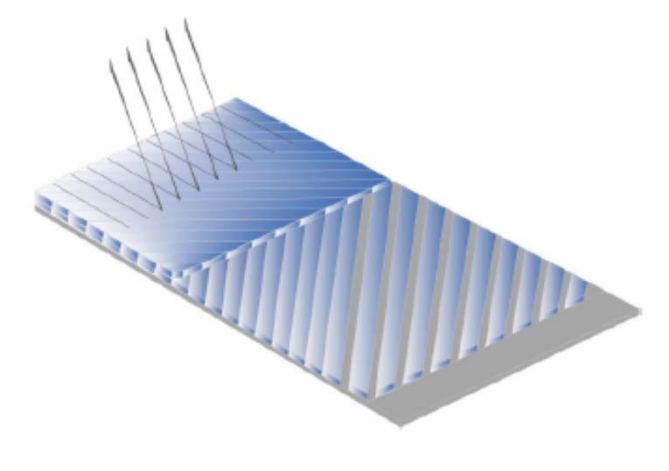
VECTORPLY®
Performance Composite Reinforcements



E-BXM 1708

Fiber Type:	E-Glass
Architecture:	45/-45 Double Bias
Dry Thickness:	0.046 in. / 1.17 mm
Total Weight:	26.24 oz/sq.yd / 890 g/sq.m

Roll Specifications

Roll Width:	Roll Weight:	Roll Length:
50 in / 1270 mm	208 lb / 95 kg	90 yd / 82 m

Fiber Architecture Data

0 ° :	n/a
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 :	8.10 oz/sq.yd / 275 g/sq.m

1: Packaging: box or bag.
2: Weights do not include polyester stitching.

Laminated Properties 45 ° 45 °

Laminate Weight

	E-BXM 1708 Resin Infused		E-BXM 1708 Open Mold	
Fiber	0.18 lb/sq.ft	0.89 kg/sq.m	0.18 lb/sq.ft	0.89 kg/sq.m
Resin	0.09 lb/sq.ft	0.42 kg/sq.m	0.21 lb/sq.ft	1.04 kg/sq.m
Total	0.27 lb/sq.ft	1.31 kg/sq.m	0.39 lb/sq.ft	1.93 kg/sq.m

Physical Properties

	E-BXM 1708 Resin Infused		E-BXM 1708 Open Mold	
Density	1.08 oz/cu.in	1.87 g/cc	0.92 oz/cu.in	1.59 g/cc
Fiber Content	68% by Wt.	50% by Vol.	46% by Wt.	29% by Vol.
Thickness	0.028 in	0.7 mm	0.048 in	1.2 mm

Laminate Modulii	E-BXM 1708 Resin Infused		E-BXM 1708 Open Mold	
Ex	2.83 MSI	19.54 GPa	1.87 MSI	12.87 GPa
Ey	2.83 MSI	19.54 GPa	1.87 MSI	12.87 GPa
Gxy	0.59 MSI	4.06 GPa	0.41 MSI	2.81 GPa
Ex,flex.	2.69 MSI	18.56 GPa	1.77 MSI	12.23 GPa
Ey,flex.	2.69 MSI	18.56 GPa	1.77 MSI	12.23 GPa

Ultimate Stress	E-BXM 1708 Resin Infused		E-BXM 1708 Open Mold	
Long. Ten.	46.5 KSI	320.5 MPa	30.6 KSI	211.1 MPa
Long. Comp.	64.6 KSI	445.5 MPa	42.6 KSI	293.4 MPa
Trans. Ten.	46.5 KSI	320.5 MPa	30.6 KSI	211.1 MPa
Trans. Comp.	64.6 KSI	445.5 MPa	42.6 KSI	293.4 MPa
In-Plane Shear	13.4 KSI	92.5 MPa	9.3 KSI	64.0 MPa
Long. Flex.	66.7 KSI	459.6 MPa	43.9 KSI	302.7 MPa
Trans. Flex.	66.7 KSI	459.6 MPa	43.9 KSI	302.7 MPa

In-Plane Stiffness, "EA"	E-BXM 1708 Resin Infused		E-BXM 1708 Open Mold	
(EA)x	78,601 lb/in	13,764 N/mm	89,214 lb/in	15,623 N/mm
(EA)y	78,601 lb/in	13,764 N/mm	89,214 lb/in	15,623 N/mm
(GA)xy	16,326 lb/in	2,859 N/mm	19,453 lb/in	3,407 N/mm

Ultimate In-Plane Load	E-BXM 1708 Resin Infused		E-BXM 1708 Open Mold	
Long. Ten.	1,289 lb/in	226 N/mm	1,463 lb/in	256 N/mm
Long. Comp.	1,792 lb/in	314 N/mm	2,034 lb/in	356 N/mm
Trans. Ten.	1,289 lb/in	226 N/mm	1,463 lb/in	256 N/mm
Trans. Comp.	1,792 lb/in	314 N/mm	2,034 lb/in	356 N/mm
In-Plane Shear	372 lb/in	65 N/mm	444 lb/in	78 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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