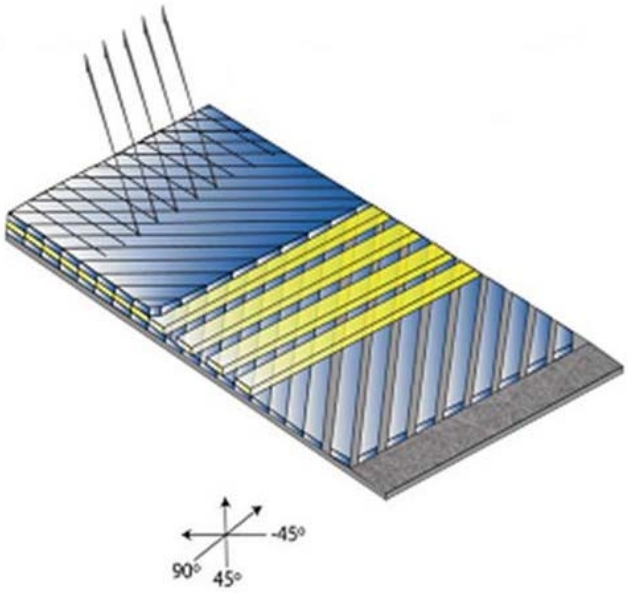
VECTORPLY®
Performance Composite Reinforcements



E-TTXM 2308

Fiber Type:	E-Glass
Architecture:	45/90/-45 Weft Triaxial
Dry Thickness:	0.041 in. / 1.04 mm
Total Weight:	32.16 oz/sq.yd / 1090 g/sq.m

Roll Specifications

Roll Width:	Roll Weight:	Roll Length:
50 in / 1270 mm	226 lb / 103 kg	79 yd / 72 m

Fiber Architecture Data

0 ° :	n/a
45 ° :	6.27 oz/sq.yd / 213 g/sq.m
90 ° :	11.52 oz/sq.yd / 391 g/sq.m
-45 ° :	6.27 oz/sq.yd / 213 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 0 ° 0 °

Laminate Weight	E-TTXM 2308 Resin Infused		E-TTXM 2308 Open Mold	
Fiber	0.22 lb/sq.ft	1.09 kg/sq.m	0.22 lb/sq.ft	1.09 kg/sq.m
Resin	0.10 lb/sq.ft	0.51 kg/sq.m	0.25 lb/sq.ft	1.20 kg/sq.m
Total	0.33 lb/sq.ft	1.60 kg/sq.m	0.47 lb/sq.ft	2.29 kg/sq.m

Physical Properties	E-TTXM 2308 Resin Infused		E-TTXM 2308 Open Mold	
Density	1.08 oz/cu.in	1.87 g/cc	0.93 oz/cu.in	1.60 g/cc
Fiber Content	68% by Wt.	50% by Vol.	48% by Wt.	30% by Vol.
Thickness	0.034 in	0.9 mm	0.056 in	1.4 mm

Laminate Modulii	E-TTXM 2308 Resin Infused		E-TTXM 2308 Open Mold	
Ex	2.12 MSI	14.64 GPa	1.40 MSI	9.65 GPa
Ey	3.26 MSI	22.51 GPa	2.13 MSI	14.72 GPa
Gxy	1.07 MSI	7.35 GPa	0.70 MSI	4.80 GPa
Ex,flex.	2.02 MSI	13.91 GPa	1.33 MSI	9.17 GPa
Ey,flex.	3.10 MSI	21.38 GPa	2.03 MSI	13.98 GPa

Ultimate Stress	E-TTXM 2308 Resin Infused		E-TTXM 2308 Open Mold	
Long. Ten.	21.2 KSI	146.4 MPa	14.0 KSI	96.5 MPa
Long. Comp.	21.2 KSI	146.4 MPa	14.0 KSI	96.5 MPa
Trans. Ten.	53.5 KSI	369.1 MPa	35.0 KSI	241.4 MPa
Trans. Comp.	61.8 KSI	426.1 MPa	40.4 KSI	278.7 MPa
In-Plane Shear	20.2 KSI	139.2 MPa	13.2 KSI	91.0 MPa
Long. Flex.	20.2 KSI	139.1 MPa	13.3 KSI	91.7 MPa
Trans. Flex.	73.8 KSI	508.6 MPa	48.2 KSI	332.6 MPa

In-Plane Stiffness, "EA"	E-TTXM 2308 Resin Infused		E-TTXM 2308 Open Mold	
(EA)x	71,485 lb/in	12,518 N/mm	78,794 lb/in	13,798 N/mm
(EA)y	109,915 lb/in	19,248 N/mm	120,190 lb/in	21,047 N/mm
(GA)xy	35,909 lb/in	6,288 N/mm	39,235 lb/in	6,871 N/mm

Ultimate In-Plane Load	E-TTXM 2308 Resin Infused		E-TTXM 2308 Open Mold	
Long. Ten.	715 lb/in	125 N/mm	788 lb/in	138 N/mm
Long. Comp.	715 lb/in	125 N/mm	788 lb/in	138 N/mm
Trans. Ten.	1,803 lb/in	316 N/mm	1,971 lb/in	345 N/mm
Trans. Comp.	2,081 lb/in	364 N/mm	2,275 lb/in	398 N/mm
In-Plane Shear	680 lb/in	119 N/mm	743 lb/in	130 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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