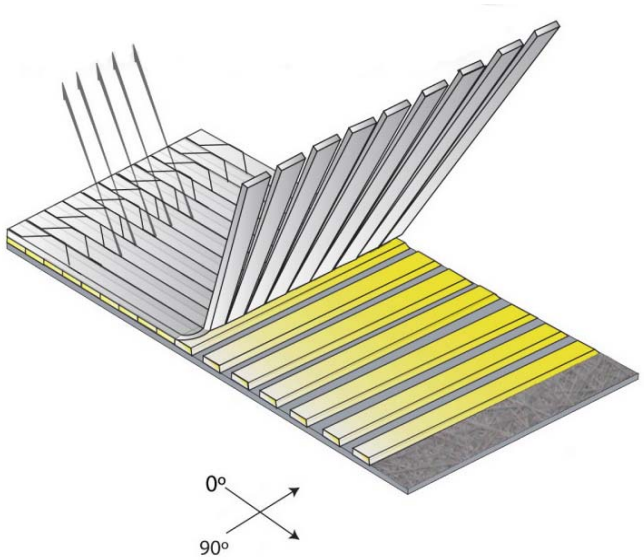
VECTORPLY®
Performance Composite Reinforcements



E-LTM 3208

Fiber Type: E-Glass
Architecture: 0/90 Biaxial
Dry Thickness: 0.054 in. / 1.37 mm
Total Weight: 39.46 oz/sq.yd / 1338 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	17.92 oz/sq.yd / 608 g/sq.m
50 in / 1270 mm	195 lb / 89 kg	56 yd / 51 m	45 ° :	n/a
			90 ° :	13.44 oz/sq.yd / 456 g/sq.m
			-45 ° :	n/a
			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-LTM 3208 Resin Infused		E-LTM 3208 Open Mold	
Fiber	0.27 lb/sq.ft	1.34 kg/sq.m	0.27 lb/sq.ft	1.34 kg/sq.m
Resin	0.13 lb/sq.ft	0.64 kg/sq.m	0.29 lb/sq.ft	1.40 kg/sq.m
Total	0.40 lb/sq.ft	1.98 kg/sq.m	0.56 lb/sq.ft	2.74 kg/sq.m

Physical Properties	E-LTM 3208 Resin Infused		E-LTM 3208 Open Mold	
Density	1.08 oz/cu.in	1.87 g/cc	0.93 oz/cu.in	1.62 g/cc
Fiber Content	68% by Wt.	50% by Vol.	49% by Wt.	31% by Vol.
Thickness	0.042 in	1.1 mm	0.067 in	1.7 mm

Laminate Modulii	E-LTM 3208 Resin Infused		E-LTM 3208 Open Mold	
Ex	3.56 MSI	24.57 GPa	2.39 MSI	16.49 GPa
Ey	3.17 MSI	21.88 GPa	2.13 MSI	14.68 GPa
Gxy	0.66 MSI	4.52 GPa	0.45 MSI	3.12 GPa
Ex,flex.	3.38 MSI	23.34 GPa	2.27 MSI	15.66 GPa
Ey,flex.	3.01 MSI	20.79 GPa	2.02 MSI	13.95 GPa

Ultimate Stress	E-LTM 3208 Resin Infused		E-LTM 3208 Open Mold	
Long. Ten.	58.4 KSI	402.9 MPa	39.2 KSI	270.4 MPa
Long. Comp.	67.5 KSI	465.1 MPa	45.3 KSI	312.1 MPa
Trans. Ten.	52.0 KSI	358.9 MPa	34.9 KSI	240.8 MPa
Trans. Comp.	60.1 KSI	414.3 MPa	40.3 KSI	278.0 MPa
In-Plane Shear	14.9 KSI	103.0 MPa	10.3 KSI	71.0 MPa
Long. Flex.	80.5 KSI	555.1 MPa	54.0 KSI	372.6 MPa
Trans. Flex.	71.7 KSI	494.5 MPa	48.1 KSI	331.8 MPa

In-Plane Stiffness, "EA"	E-LTM 3208 Resin Infused		E-LTM 3208 Open Mold	
(EA)x	148,581 lb/in	26,019 N/mm	159,695 lb/in	27,966 N/mm
(EA)y	132,349 lb/in	23,177 N/mm	142,224 lb/in	24,906 N/mm
(GA)xy	27,321 lb/in	4,784 N/mm	30,172 lb/in	5,284 N/mm

Ultimate In-Plane Load	E-LTM 3208 Resin Infused		E-LTM 3208 Open Mold	
Long. Ten.	2,437 lb/in	427 N/mm	2,619 lb/in	459 N/mm
Long. Comp.	2,813 lb/in	493 N/mm	3,023 lb/in	529 N/mm
Trans. Ten.	2,171 lb/in	380 N/mm	2,332 lb/in	408 N/mm
Trans. Comp.	2,506 lb/in	439 N/mm	2,693 lb/in	472 N/mm
In-Plane Shear	623 lb/in	109 N/mm	688 lb/in	120 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.

VECTORPLY CORPORATION

3500 Lakewood Dr. Phenix City, AL 36867 tel. 334 291 7704 fax. 334 291 7743

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