



E-LTM 1808

Fiber Type: E-Glass
 Architecture: 0/90 Biaxial
 Dry Thickness: 0.036 in. / 0.91 mm
 Total Weight: 26.02 oz/sq.yd / 882 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 176 lb / 80 kg	Roll Length: 76 yd / 69 m	0 ° :	8.96 oz/sq.yd / 304 g/sq.m
			45 ° :	n/a
			90 ° :	8.96 oz/sq.yd / 304 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 1808 Resin Infused		E-LTM 1808 Open Mold	
Fiber	0.18 lb/sq.ft	0.88 kg/sq.m	0.18 lb/sq.ft	0.88 kg/sq.m
Resin	0.09 lb/sq.ft	0.44 kg/sq.m	0.21 lb/sq.ft	1.03 kg/sq.m
Total	0.27 lb/sq.ft	1.33 kg/sq.m	0.39 lb/sq.ft	1.91 kg/sq.m

Physical Properties				
	E-LTM 1808 Resin Infused		E-LTM 1808 Open Mold	
Density	1.07 oz/cu.in	1.85 g/cc	0.92 oz/cu.in	1.59 g/cc
Fiber Content	67% by Wt.	48% by Vol.	46% by Wt.	29% by Vol.
Thickness	0.028 in	0.7 mm	0.047 in	1.2 mm

Laminate Moduli

	E-LTM 1808 Resin Infused		E-LTM 1808 Open Mold	
	Ex	2.87 MSI	19.78 GPa	1.89 MSI
Ey	2.87 MSI	19.78 GPa	1.89 MSI	13.04 GPa
Gxy	0.65 MSI	4.51 GPa	0.44 MSI	3.07 GPa
Ex,flex.	2.73 MSI	18.79 GPa	1.80 MSI	12.39 GPa
Ey,flex.	2.73 MSI	18.79 GPa	1.80 MSI	12.39 GPa

Ultimate Stress

	E-LTM 1808 Resin Infused		E-LTM 1808 Open Mold	
	Long. Ten.	39.8 KSI	274.7 MPa	26.3 KSI
Long. Comp.	46.2 KSI	318.6 MPa	30.5 KSI	210.2 MPa
Trans. Ten.	46.2 KSI	318.6 MPa	30.5 KSI	210.2 MPa
Trans. Comp.	60.6 KSI	417.5 MPa	39.9 KSI	275.4 MPa
In-Plane Shear	14.9 KSI	102.8 MPa	10.1 KSI	69.9 MPa
Long. Flex.	51.5 KSI	354.9 MPa	33.9 KSI	234.1 MPa
Trans. Flex.	54.5 KSI	375.8 MPa	35.9 KSI	247.8 MPa

In-Plane Stiffness, "EA"

	E-LTM 1808 Resin Infused		E-LTM 1808 Open Mold	
	(EA)x	80,976 lb/in	14,180 N/mm	89,829 lb/in
(EA)y	80,976 lb/in	14,180 N/mm	89,829 lb/in	15,731 N/mm
(GA)xy	18,464 lb/in	3,233 N/mm	21,109 lb/in	3,697 N/mm

Ultimate In-Plane Load

	E-LTM 1808 Resin Infused		E-LTM 1808 Open Mold	
	Long. Ten.	1,125 lb/in	197 N/mm	1,248 lb/in
Long. Comp.	1,305 lb/in	228 N/mm	1,447 lb/in	253 N/mm
Trans. Ten.	1,305 lb/in	228 N/mm	1,447 lb/in	253 N/mm
Trans. Comp.	1,709 lb/in	299 N/mm	1,896 lb/in	332 N/mm
In-Plane Shear	421 lb/in	74 N/mm	481 lb/in	84 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.



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

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Disclaimer:

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