



## E-TLXM 1908

Fiber Type: E-Glass  
 Architecture: 0/45/-45 Warp Triaxial  
 Dry Thickness: 0.044 in. / 1.12 mm  
 Total Weight: 27.81 oz/sq.yd / 943 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 179 lb / 81 kg	Roll Length: 72 yd / 66 m	0 ° : 8.96 oz/sq.yd / 304 g/sq.m	
			45 ° : 5.38 oz/sq.yd / 182 g/sq.m	
			90 ° : n/a	
			-45 ° : 5.38 oz/sq.yd / 182 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-TLXM 1908 Resin Infused		E-TLXM 1908 Open Mold	
Fiber	0.19 lb/sq.ft	0.94 kg/sq.m	0.19 lb/sq.ft	0.94 kg/sq.m
Resin	0.09 lb/sq.ft	0.45 kg/sq.m	0.22 lb/sq.ft	1.08 kg/sq.m
Total	0.28 lb/sq.ft	1.39 kg/sq.m	0.41 lb/sq.ft	2.02 kg/sq.m

Physical Properties				
	E-TLXM 1908 Resin Infused		E-TLXM 1908 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.	47% by Wt.	29% by Vol.
Thickness	0.029 in	0.7 mm	0.050 in	1.3 mm

**Laminate Moduli**

	E-TLXM 1908 Resin Infused		E-TLXM 1908 Open Mold	
	Ex	3.20 MSI	22.08 GPa	2.06 MSI
Ey	2.05 MSI	14.11 GPa	1.35 MSI	9.28 GPa
Gxy	1.10 MSI	7.55 GPa	0.70 MSI	4.84 GPa
Ex,flex.	3.04 MSI	20.98 GPa	1.95 MSI	13.48 GPa
Ey,flex.	1.94 MSI	13.40 GPa	1.28 MSI	8.82 GPa

**Ultimate Stress**

	E-TLXM 1908 Resin Infused		E-TLXM 1908 Open Mold	
	Long. Ten.	52.5 KSI	362.2 MPa	33.7 KSI
Long. Comp.	60.6 KSI	418.1 MPa	39.0 KSI	268.6 MPa
Trans. Ten.	20.5 KSI	141.1 MPa	13.5 KSI	92.8 MPa
Trans. Comp.	20.5 KSI	141.1 MPa	13.5 KSI	92.8 MPa
In-Plane Shear	20.7 KSI	143.0 MPa	13.3 KSI	91.7 MPa
Long. Flex.	72.4 KSI	499.1 MPa	46.5 KSI	320.6 MPa
Trans. Flex.	19.4 KSI	134.0 MPa	12.8 KSI	88.2 MPa

**In-Plane Stiffness, "EA"**

	E-TLXM 1908 Resin Infused		E-TLXM 1908 Open Mold	
	(EA)x	93,884 lb/in	16,441 N/mm	103,004 lb/in
(EA)y	59,966 lb/in	10,501 N/mm	67,403 lb/in	11,804 N/mm
(GA)xy	32,110 lb/in	5,623 N/mm	35,162 lb/in	6,158 N/mm

**Ultimate In-Plane Load**

	E-TLXM 1908 Resin Infused		E-TLXM 1908 Open Mold	
	Long. Ten.	1,540 lb/in	270 N/mm	1,689 lb/in
Long. Comp.	1,777 lb/in	311 N/mm	1,950 lb/in	341 N/mm
Trans. Ten.	600 lb/in	105 N/mm	674 lb/in	118 N/mm
Trans. Comp.	600 lb/in	105 N/mm	674 lb/in	118 N/mm
In-Plane Shear	608 lb/in	106 N/mm	666 lb/in	117 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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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.