



E-TLXM 2208

Fiber Type: E-Glass
 Architecture: 0/45/-45 Warp Triaxial
 Dry Thickness: 0.049 in. / 1.24 mm
 Total Weight: 31.65 oz/sq.yd / 1073 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 178 lb / 81 kg	Roll Length: 63 yd / 58 m	0 ° : 12.80 oz/sq.yd / 434 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 2208 Resin Infused		E-TLXM 2208 Open Mold	
Fiber	0.22 lb/sq.ft	1.07 kg/sq.m	0.22 lb/sq.ft	1.07 kg/sq.m
Resin	0.10 lb/sq.ft	0.50 kg/sq.m	0.24 lb/sq.ft	1.19 kg/sq.m
Total	0.32 lb/sq.ft	1.58 kg/sq.m	0.46 lb/sq.ft	2.26 kg/sq.m

Physical Properties

	E-TLXM 2208 Resin Infused		E-TLXM 2208 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.	47% by Wt.	30% by Vol.
Thickness	0.033 in	0.8 mm	0.056 in	1.4 mm

Laminate Moduli

	E-TLXM 2208 Resin Infused		E-TLXM 2208 Open Mold	
	Ex	3.49 MSI	24.09 GPa	2.27 MSI
Ey	2.02 MSI	13.91 GPa	1.34 MSI	9.25 GPa
Gxy	1.06 MSI	7.32 GPa	0.69 MSI	4.75 GPa
Ex,flex.	3.32 MSI	22.89 GPa	2.15 MSI	14.86 GPa
Ey,flex.	1.92 MSI	13.21 GPa	1.27 MSI	8.79 GPa

Ultimate Stress

	E-TLXM 2208 Resin Infused		E-TLXM 2208 Open Mold	
	Long. Ten.	57.3 KSI	395.1 MPa	37.2 KSI
Long. Comp.	66.2 KSI	456.2 MPa	42.9 KSI	296.1 MPa
Trans. Ten.	20.2 KSI	139.1 MPa	13.4 KSI	92.5 MPa
Trans. Comp.	20.2 KSI	139.1 MPa	13.4 KSI	92.5 MPa
In-Plane Shear	20.1 KSI	138.7 MPa	13.0 KSI	89.8 MPa
Long. Flex.	79.0 KSI	544.5 MPa	51.3 KSI	353.4 MPa
Trans. Flex.	19.2 KSI	132.1 MPa	12.7 KSI	87.9 MPa

In-Plane Stiffness, "EA"

	E-TLXM 2208 Resin Infused		E-TLXM 2208 Open Mold	
	(EA)x	115,878 lb/in	20,292 N/mm	126,034 lb/in
(EA)y	66,879 lb/in	11,712 N/mm	74,571 lb/in	13,059 N/mm
(GA)xy	35,224 lb/in	6,168 N/mm	38,247 lb/in	6,698 N/mm

Ultimate In-Plane Load

	E-TLXM 2208 Resin Infused		E-TLXM 2208 Open Mold	
	Long. Ten.	1,900 lb/in	333 N/mm	2,067 lb/in
Long. Comp.	2,194 lb/in	384 N/mm	2,386 lb/in	418 N/mm
Trans. Ten.	669 lb/in	117 N/mm	746 lb/in	131 N/mm
Trans. Comp.	669 lb/in	117 N/mm	746 lb/in	131 N/mm
In-Plane Shear	667 lb/in	117 N/mm	724 lb/in	127 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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Disclaimer:

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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.