



E-TLXM 2408

Fiber Type: E-Glass
 Architecture: 0/45/-45 Warp Triaxial
 Dry Thickness: 0.049 in. / 1.24 mm
 Total Weight: 34.21 oz/sq.yd / 1160 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 229 lb / 104 kg	Roll Length: 75 yd / 69 m	0 ° :	15.36 oz/sq.yd / 521 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 2408 Resin Infused		E-TLXM 2408 Open Mold	
Fiber	0.24 lb/sq.ft	1.16 kg/sq.m	0.24 lb/sq.ft	1.16 kg/sq.m
Resin	0.11 lb/sq.ft	0.54 kg/sq.m	0.26 lb/sq.ft	1.26 kg/sq.m
Total	0.35 lb/sq.ft	1.70 kg/sq.m	0.50 lb/sq.ft	2.42 kg/sq.m

Physical Properties				
	E-TLXM 2408 Resin Infused		E-TLXM 2408 Open Mold	
Density	1.08 oz/cu.in	1.87 g/cc	0.93 oz/cu.in	1.61 g/cc
Fiber Content	68% by Wt.	50% by Vol.	48% by Wt.	30% by Vol.
Thickness	0.036 in	0.9 mm	0.059 in	1.5 mm

Laminate Moduli

	E-TLXM 2408 Resin Infused		E-TLXM 2408 Open Mold	
	Ex	3.65 MSI	25.19 GPa	2.39 MSI
Ey	2.00 MSI	13.78 GPa	1.34 MSI	9.23 GPa
Gxy	1.04 MSI	7.20 GPa	0.68 MSI	4.69 GPa
Ex,flex.	3.47 MSI	23.93 GPa	2.27 MSI	15.63 GPa
Ey,flex.	1.90 MSI	13.09 GPa	1.27 MSI	8.76 GPa

Ultimate Stress

	E-TLXM 2408 Resin Infused		E-TLXM 2408 Open Mold	
	Long. Ten.	59.9 KSI	413.2 MPa	39.1 KSI
Long. Comp.	69.2 KSI	476.9 MPa	45.2 KSI	311.5 MPa
Trans. Ten.	20.0 KSI	137.8 MPa	13.4 KSI	92.3 MPa
Trans. Comp.	20.0 KSI	137.8 MPa	13.4 KSI	92.3 MPa
In-Plane Shear	19.8 KSI	136.3 MPa	12.9 KSI	88.8 MPa
Long. Flex.	82.6 KSI	569.3 MPa	53.9 KSI	371.8 MPa
Trans. Flex.	19.0 KSI	130.9 MPa	12.7 KSI	87.6 MPa

In-Plane Stiffness, "EA"

	E-TLXM 2408 Resin Infused		E-TLXM 2408 Open Mold	
	(EA)x	130,535 lb/in	22,859 N/mm	141,382 lb/in
(EA)y	71,420 lb/in	12,507 N/mm	79,271 lb/in	13,882 N/mm
(GA)xy	37,299 lb/in	6,532 N/mm	40,303 lb/in	7,058 N/mm

Ultimate In-Plane Load

	E-TLXM 2408 Resin Infused		E-TLXM 2408 Open Mold	
	Long. Ten.	2,141 lb/in	375 N/mm	2,319 lb/in
Long. Comp.	2,471 lb/in	433 N/mm	2,677 lb/in	469 N/mm
Trans. Ten.	714 lb/in	125 N/mm	793 lb/in	139 N/mm
Trans. Comp.	714 lb/in	125 N/mm	793 lb/in	139 N/mm
In-Plane Shear	706 lb/in	124 N/mm	763 lb/in	134 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.