



E-TLXM 5508

Fiber Type: E-Glass
 Architecture: 0/45/-45 Warp Triaxial
 Dry Thickness: 0.080 in. / 2.03 mm
 Total Weight: 62.68 oz/sq.yd / 2125 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 230 lb / 105 kg	Roll Length: 42 yd / 38 m	0 ° :	27.70 oz/sq.yd / 939 g/sq.m
			45 ° :	13.44 oz/sq.yd / 456 g/sq.m
			90 ° :	n/a
			-45 ° :	13.44 oz/sq.yd / 456 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 5508 Resin Infused		E-TLXM 5508 Open Mold	
Fiber	0.44 lb/sq.ft	2.13 kg/sq.m	0.44 lb/sq.ft	2.13 kg/sq.m
Resin	0.20 lb/sq.ft	0.95 kg/sq.m	0.42 lb/sq.ft	2.05 kg/sq.m
Total	0.63 lb/sq.ft	3.08 kg/sq.m	0.85 lb/sq.ft	4.17 kg/sq.m

Physical Properties				
	E-TLXM 5508 Resin Infused		E-TLXM 5508 Open Mold	
Density	1.09 oz/cu.in	1.89 g/cc	0.95 oz/cu.in	1.64 g/cc
Fiber Content	69% by Wt.	51% by Vol.	51% by Wt.	33% by Vol.
Thickness	0.064 in	1.6 mm	0.100 in	2.5 mm

Laminate Moduli

	E-TLXM 5508 Resin Infused		E-TLXM 5508 Open Mold	
	Ex	3.73 MSI	25.69 GPa	2.54 MSI
Ey	2.09 MSI	14.39 GPa	1.43 MSI	9.87 GPa
Gxy	1.16 MSI	7.98 GPa	0.78 MSI	5.39 GPa
Ex,flex.	3.54 MSI	24.41 GPa	2.41 MSI	16.62 GPa
Ey,flex.	1.98 MSI	13.67 GPa	1.36 MSI	9.38 GPa

Ultimate Stress

	E-TLXM 5508 Resin Infused		E-TLXM 5508 Open Mold	
	Long. Ten.	61.1 KSI	421.3 MPa	41.6 KSI
Long. Comp.	70.5 KSI	486.4 MPa	48.0 KSI	331.1 MPa
Trans. Ten.	20.9 KSI	143.9 MPa	14.3 KSI	98.7 MPa
Trans. Comp.	20.9 KSI	143.9 MPa	14.3 KSI	98.7 MPa
In-Plane Shear	21.9 KSI	151.0 MPa	14.8 KSI	102.1 MPa
Long. Flex.	84.2 KSI	580.6 MPa	57.3 KSI	395.2 MPa
Trans. Flex.	19.8 KSI	136.7 MPa	13.6 KSI	93.8 MPa

In-Plane Stiffness, "EA"

	E-TLXM 5508 Resin Infused		E-TLXM 5508 Open Mold	
	(EA)x	239,468 lb/in	41,935 N/mm	253,986 lb/in
(EA)y	134,151 lb/in	23,492 N/mm	143,381 lb/in	25,109 N/mm
(GA)xy	74,349 lb/in	13,020 N/mm	78,299 lb/in	13,712 N/mm

Ultimate In-Plane Load

	E-TLXM 5508 Resin Infused		E-TLXM 5508 Open Mold	
	Long. Ten.	3,927 lb/in	688 N/mm	4,165 lb/in
Long. Comp.	4,534 lb/in	794 N/mm	4,808 lb/in	842 N/mm
Trans. Ten.	1,342 lb/in	235 N/mm	1,434 lb/in	251 N/mm
Trans. Comp.	1,342 lb/in	235 N/mm	1,434 lb/in	251 N/mm
In-Plane Shear	1,408 lb/in	246 N/mm	1,482 lb/in	260 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:

As a service to customers, Vectorply Corporation ("VP") may provide computer-generated predictions of the physical performance of a product using a reinforcement fabric produced by VP in combination with other materials or systems.

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.