



## E-TTXM 4008

Fiber Type: E-Glass  
 Architecture: 45/90/-45 Weft Triaxial  
 Dry Thickness: 0.064 in. / 1.63 mm  
 Total Weight: 46.05 oz/sq.yd / 1561 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 224 lb / 102 kg	Roll Length: 54 yd / 49 m	0 ° : n/a	
			45 ° : 11.65 oz/sq.yd / 395 g/sq.m	
			90 ° : 16.00 oz/sq.yd / 542 g/sq.m	
			-45 ° : 11.65 oz/sq.yd / 395 g/sq.m	
			Chopped Mat : 6.75 oz/sq.yd / 229 g/sq.m	

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

### Laminated Properties

0 °

0 °

Laminate Weight				
	E-TTXM 4008 Resin Infused		E-TTXM 4008 Open Mold	
Fiber	0.32 lb/sq.ft	1.56 kg/sq.m	0.32 lb/sq.ft	1.56 kg/sq.m
Resin	0.14 lb/sq.ft	0.71 kg/sq.m	0.31 lb/sq.ft	1.53 kg/sq.m
Total	0.46 lb/sq.ft	2.27 kg/sq.m	0.63 lb/sq.ft	3.10 kg/sq.m

Physical Properties				
	E-TTXM 4008 Resin Infused		E-TTXM 4008 Open Mold	
Density	1.09 oz/cu.in	1.88 g/cc	0.94 oz/cu.in	1.63 g/cc
Fiber Content	69% by Wt.	51% by Vol.	50% by Wt.	32% by Vol.
Thickness	0.047 in	1.2 mm	0.075 in	1.9 mm

**Laminate Moduli**

	E-TTXM 4008 Resin Infused		E-TTXM 4008 Open Mold	
	Ex	2.18 MSI	15.03 GPa	1.48 MSI
Ey	3.28 MSI	22.63 GPa	2.23 MSI	15.39 GPa
Gxy	1.19 MSI	8.22 GPa	0.80 MSI	5.55 GPa
Ex,flex.	2.07 MSI	14.28 GPa	1.40 MSI	9.68 GPa
Ey,flex.	3.12 MSI	21.50 GPa	2.12 MSI	14.62 GPa

**Ultimate Stress**

	E-TTXM 4008 Resin Infused		E-TTXM 4008 Open Mold	
	Long. Ten.	21.8 KSI	150.3 MPa	14.8 KSI
Long. Comp.	21.8 KSI	150.3 MPa	14.8 KSI	101.9 MPa
Trans. Ten.	53.8 KSI	371.2 MPa	36.6 KSI	252.4 MPa
Trans. Comp.	62.1 KSI	428.5 MPa	42.3 KSI	291.4 MPa
In-Plane Shear	22.6 KSI	155.6 MPa	15.2 KSI	105.1 MPa
Long. Flex.	20.7 KSI	142.8 MPa	14.0 KSI	96.8 MPa
Trans. Flex.	74.2 KSI	511.5 MPa	50.4 KSI	347.8 MPa

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

	E-TTXM 4008 Resin Infused		E-TTXM 4008 Open Mold	
	(EA)x	103,239 lb/in	18,079 N/mm	110,184 lb/in
(EA)y	155,463 lb/in	27,224 N/mm	166,437 lb/in	29,146 N/mm
(GA)xy	56,440 lb/in	9,884 N/mm	60,008 lb/in	10,508 N/mm

**Ultimate In-Plane Load**

	E-TTXM 4008 Resin Infused		E-TTXM 4008 Open Mold	
	Long. Ten.	1,032 lb/in	181 N/mm	1,102 lb/in
Long. Comp.	1,032 lb/in	181 N/mm	1,102 lb/in	193 N/mm
Trans. Ten.	2,550 lb/in	446 N/mm	2,730 lb/in	478 N/mm
Trans. Comp.	2,943 lb/in	515 N/mm	3,151 lb/in	552 N/mm
In-Plane Shear	1,069 lb/in	187 N/mm	1,136 lb/in	199 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.