



## E-QXM 3508

Fiber Type: E-Glass  
 Architecture: 0/45/90/-45 Quadraxial  
 Dry Thickness: 0.059 in. / 1.50 mm  
 Total Weight: 44.06 oz/sq.yd / 1494 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 187 lb / 85 kg	Roll Length: 48 yd / 44 m	0 ° :	12.80 oz/sq.yd / 434 g/sq.m
			45 ° :	5.82 oz/sq.yd / 197 g/sq.m
			90 ° :	11.52 oz/sq.yd / 391 g/sq.m
			-45 ° :	5.82 oz/sq.yd / 197 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-QXM 3508 Resin Infused		E-QXM 3508 Open Mold	
Fiber	0.31 lb/sq.ft	1.49 kg/sq.m	0.31 lb/sq.ft	1.49 kg/sq.m
Resin	0.15 lb/sq.ft	0.74 kg/sq.m	0.31 lb/sq.ft	1.53 kg/sq.m
Total	0.46 lb/sq.ft	2.23 kg/sq.m	0.62 lb/sq.ft	3.02 kg/sq.m

Physical Properties				
	E-QXM 3508 Resin Infused		E-QXM 3508 Open Mold	
Density	1.07 oz/cu.in	1.86 g/cc	0.94 oz/cu.in	1.62 g/cc
Fiber Content	67% by Wt.	49% by Vol.	49% by Wt.	32% by Vol.
Thickness	0.047 in	1.2 mm	0.073 in	1.9 mm

**Laminate Moduli**

	E-QXM 3508 Resin Infused		E-QXM 3508 Open Mold	
	Ex	3.02 MSI	20.81 GPa	2.09 MSI
Ey	2.92 MSI	20.15 GPa	2.02 MSI	13.95 GPa
Gxy	0.90 MSI	6.23 GPa	0.63 MSI	4.35 GPa
Ex,flex.	2.87 MSI	19.77 GPa	1.98 MSI	13.68 GPa
Ey,flex.	2.78 MSI	19.14 GPa	1.92 MSI	13.25 GPa

**Ultimate Stress**

	E-QXM 3508 Resin Infused		E-QXM 3508 Open Mold	
	Long. Ten.	49.5 KSI	341.2 MPa	34.3 KSI
Long. Comp.	57.1 KSI	393.9 MPa	39.5 KSI	272.7 MPa
Trans. Ten.	47.9 KSI	330.4 MPa	33.2 KSI	228.8 MPa
Trans. Comp.	55.3 KSI	381.4 MPa	38.3 KSI	264.1 MPa
In-Plane Shear	17.1 KSI	117.9 MPa	11.9 KSI	82.3 MPa
Long. Flex.	68.2 KSI	470.1 MPa	47.2 KSI	325.4 MPa
Trans. Flex.	66.0 KSI	455.2 MPa	45.7 KSI	315.2 MPa

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

	E-QXM 3508 Resin Infused		E-QXM 3508 Open Mold	
	(EA)x	142,665 lb/in	24,983 N/mm	153,285 lb/in
(EA)y	138,141 lb/in	24,191 N/mm	148,482 lb/in	26,002 N/mm
(GA)xy	42,697 lb/in	7,477 N/mm	46,256 lb/in	8,100 N/mm

**Ultimate In-Plane Load**

	E-QXM 3508 Resin Infused		E-QXM 3508 Open Mold	
	Long. Ten.	2,340 lb/in	410 N/mm	2,514 lb/in
Long. Comp.	2,701 lb/in	473 N/mm	2,902 lb/in	508 N/mm
Trans. Ten.	2,266 lb/in	397 N/mm	2,435 lb/in	426 N/mm
Trans. Comp.	2,615 lb/in	458 N/mm	2,811 lb/in	492 N/mm
In-Plane Shear	808 lb/in	142 N/mm	876 lb/in	153 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.