



## E-QXM 4108

Fiber Type: E-Glass  
 Architecture: 0/45/90/-45 Quadraxial  
 Dry Thickness: 0.064 in. / 1.63 mm  
 Total Weight: 48.30 oz/sq.yd / 1638 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 100 in / 2540 mm	Roll Weight: 386 lb / 175 kg	Roll Length: 46 yd / 42 m	0 ° :	12.80 oz/sq.yd / 434 g/sq.m
			45 ° :	5.38 oz/sq.yd / 182 g/sq.m
			90 ° :	16.64 oz/sq.yd / 564 g/sq.m
			-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-QXM 4108 Resin Infused		E-QXM 4108 Open Mold		
Fiber	0.34 lb/sq.ft	1.64 kg/sq.m	0.34 lb/sq.ft	1.64 kg/sq.m	
Resin	0.16 lb/sq.ft	0.80 kg/sq.m	0.34 lb/sq.ft	1.65 kg/sq.m	
Total	0.50 lb/sq.ft	2.44 kg/sq.m	0.67 lb/sq.ft	3.29 kg/sq.m	

Physical Properties					
	E-QXM 4108 Resin Infused		E-QXM 4108 Open Mold		
Density	1.07 oz/cu.in	1.86 g/cc	0.94 oz/cu.in	1.63 g/cc	
Fiber Content	67% by Wt.	49% by Vol.	50% by Wt.	32% by Vol.	
Thickness	0.052 in	1.3 mm	0.079 in	2.0 mm	

**Laminate Moduli**

	E-QXM 4108 Resin Infused		E-QXM 4108 Open Mold	
	Ex	2.93 MSI	20.24 GPa	2.04 MSI
Ey	3.20 MSI	22.06 GPa	2.23 MSI	15.36 GPa
Gxy	0.86 MSI	5.93 GPa	0.61 MSI	4.18 GPa
Ex,flex.	2.79 MSI	19.22 GPa	1.94 MSI	13.39 GPa
Ey,flex.	3.04 MSI	20.96 GPa	2.12 MSI	14.59 GPa

**Ultimate Stress**

	E-QXM 4108 Resin Infused		E-QXM 4108 Open Mold	
	Long. Ten.	48.1 KSI	331.9 MPa	33.5 KSI
Long. Comp.	55.6 KSI	383.1 MPa	38.7 KSI	266.9 MPa
Trans. Ten.	52.5 KSI	361.8 MPa	36.5 KSI	251.9 MPa
Trans. Comp.	60.6 KSI	417.7 MPa	42.2 KSI	290.8 MPa
In-Plane Shear	16.3 KSI	112.3 MPa	11.5 KSI	79.1 MPa
Long. Flex.	66.3 KSI	457.3 MPa	46.2 KSI	318.6 MPa
Trans. Flex.	72.3 KSI	498.5 MPa	50.3 KSI	347.1 MPa

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

	E-QXM 4108 Resin Infused		E-QXM 4108 Open Mold	
	(EA)x	151,821 lb/in	26,587 N/mm	162,492 lb/in
(EA)y	165,519 lb/in	28,985 N/mm	177,035 lb/in	31,002 N/mm
(GA)xy	44,518 lb/in	7,796 N/mm	48,133 lb/in	8,429 N/mm

**Ultimate In-Plane Load**

	E-QXM 4108 Resin Infused		E-QXM 4108 Open Mold	
	Long. Ten.	2,490 lb/in	436 N/mm	2,665 lb/in
Long. Comp.	2,874 lb/in	503 N/mm	3,076 lb/in	539 N/mm
Trans. Ten.	2,715 lb/in	475 N/mm	2,903 lb/in	508 N/mm
Trans. Comp.	3,134 lb/in	549 N/mm	3,352 lb/in	587 N/mm
In-Plane Shear	843 lb/in	148 N/mm	911 lb/in	160 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.



3500 Lakewood Dr. Phenix City, AL 36867 tel. 334 291 7704 fax. 334 291 7743

REV: 7/8/2015

**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.