



E-QXM 1908

Fiber Type: E-Glass
 Architecture: 0/45/90/-45 Quadraxial
 Dry Thickness: 0.045 in. / 1.14 mm
 Total Weight: 28.78 oz/sq.yd / 976 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 187 lb / 85 kg	Roll Length: 73 yd / 67 m	0 ° :	12.80 oz/sq.yd / 434 g/sq.m
			45 ° :	3.14 oz/sq.yd / 106 g/sq.m
			90 ° :	1.60 oz/sq.yd / 54 g/sq.m
			-45 ° :	3.14 oz/sq.yd / 106 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 1908 Resin Infused		E-QXM 1908 Open Mold	
Fiber	0.20 lb/sq.ft	0.98 kg/sq.m	0.20 lb/sq.ft	0.98 kg/sq.m
Resin	0.10 lb/sq.ft	0.49 kg/sq.m	0.23 lb/sq.ft	1.11 kg/sq.m
Total	0.30 lb/sq.ft	1.47 kg/sq.m	0.43 lb/sq.ft	2.08 kg/sq.m

Physical Properties				
	E-QXM 1908 Resin Infused		E-QXM 1908 Open Mold	
Density	1.07 oz/cu.in	1.85 g/cc	0.92 oz/cu.in	1.59 g/cc
Fiber Content	67% by Wt.	48% by Vol.	47% by Wt.	29% by Vol.
Thickness	0.031 in	0.8 mm	0.051 in	1.3 mm

Laminate Moduli

	E-QXM 1908 Resin Infused		E-QXM 1908 Open Mold	
	Ex	3.46 MSI	23.85 GPa	2.30 MSI
Ey	2.19 MSI	15.13 GPa	1.48 MSI	10.21 GPa
Gxy	0.86 MSI	5.93 GPa	0.58 MSI	4.02 GPa
Ex,flex.	3.29 MSI	22.66 GPa	2.18 MSI	15.03 GPa
Ey,flex.	2.08 MSI	14.37 GPa	1.41 MSI	9.70 GPa

Ultimate Stress

	E-QXM 1908 Resin Infused		E-QXM 1908 Open Mold	
	Long. Ten.	56.7 KSI	391.1 MPa	37.6 KSI
Long. Comp.	65.5 KSI	451.5 MPa	43.4 KSI	299.6 MPa
Trans. Ten.	36.0 KSI	248.2 MPa	24.3 KSI	167.4 MPa
Trans. Comp.	41.5 KSI	286.5 MPa	28.0 KSI	193.2 MPa
In-Plane Shear	16.3 KSI	112.3 MPa	11.0 KSI	76.1 MPa
Long. Flex.	78.2 KSI	538.9 MPa	51.9 KSI	357.6 MPa
Trans. Flex.	49.6 KSI	341.9 MPa	33.4 KSI	230.6 MPa

In-Plane Stiffness, "EA"

	E-QXM 1908 Resin Infused		E-QXM 1908 Open Mold	
	(EA)x	108,081 lb/in	18,927 N/mm	118,071 lb/in
(EA)y	68,575 lb/in	12,009 N/mm	76,152 lb/in	13,336 N/mm
(GA)xy	26,892 lb/in	4,709 N/mm	29,974 lb/in	5,249 N/mm

Ultimate In-Plane Load

	E-QXM 1908 Resin Infused		E-QXM 1908 Open Mold	
	Long. Ten.	1,773 lb/in	310 N/mm	1,936 lb/in
Long. Comp.	2,046 lb/in	358 N/mm	2,235 lb/in	391 N/mm
Trans. Ten.	1,125 lb/in	197 N/mm	1,249 lb/in	219 N/mm
Trans. Comp.	1,298 lb/in	227 N/mm	1,442 lb/in	252 N/mm
In-Plane Shear	509 lb/in	89 N/mm	567 lb/in	99 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.