



E-QXM 3610-10W

Fiber Type: E-Glass
 Architecture: 0/45/90/-45 Quadraxial
 Dry Thickness: 0.057 in. / 1.45 mm
 Total Weight: 44.72 oz/sq.yd / 1516 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 166 lb / 75 kg	Roll Length: 42 yd / 38 m	0 ° :	12.80 oz/sq.yd / 434 g/sq.m
			45 ° :	7.62 oz/sq.yd / 258 g/sq.m
			90 ° :	7.68 oz/sq.yd / 260 g/sq.m
			-45 ° :	7.62 oz/sq.yd / 258 g/sq.m
			Chopped Mat :	9.00 oz/sq.yd / 305 g/sq.m

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight				
	E-QXM 3610-10W Resin Infused		E-QXM 3610-10W Open Mold	
Fiber	0.31 lb/sq.ft	1.52 kg/sq.m	0.31 lb/sq.ft	1.52 kg/sq.m
Resin	0.15 lb/sq.ft	0.75 kg/sq.m	0.32 lb/sq.ft	1.58 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-QXM 3610-10W Resin Infused		E-QXM 3610-10W Open Mold	
Density	1.07 oz/cu.in	1.85 g/cc	0.93 oz/cu.in	1.62 g/cc
Fiber Content	67% by Wt.	49% by Vol.	49% by Wt.	31% by Vol.
Thickness	0.048 in	1.2 mm	0.075 in	1.9 mm

Laminate Moduli

	E-QXM 3610-10W Resin Infused		E-QXM 3610-10W Open Mold	
	Ex	2.62 MSI	18.09 GPa	1.81 MSI
Ey	2.99 MSI	20.64 GPa	2.06 MSI	14.20 GPa
Gxy	0.98 MSI	6.76 GPa	0.68 MSI	4.67 GPa
Ex,flex.	2.49 MSI	17.19 GPa	1.72 MSI	11.86 GPa
Ey,flex.	2.84 MSI	19.61 GPa	1.96 MSI	13.49 GPa

Ultimate Stress

	E-QXM 3610-10W Resin Infused		E-QXM 3610-10W Open Mold	
	Long. Ten.	43.0 KSI	296.7 MPa	29.7 KSI
Long. Comp.	49.7 KSI	342.6 MPa	34.3 KSI	236.3 MPa
Trans. Ten.	49.1 KSI	338.5 MPa	33.8 KSI	232.9 MPa
Trans. Comp.	56.7 KSI	390.7 MPa	39.0 KSI	268.9 MPa
In-Plane Shear	18.6 KSI	128.0 MPa	12.8 KSI	88.4 MPa
Long. Flex.	59.3 KSI	408.9 MPa	40.9 KSI	282.0 MPa
Trans. Flex.	67.6 KSI	466.4 MPa	46.5 KSI	320.9 MPa

In-Plane Stiffness, "EA"

	E-QXM 3610-10W Resin Infused		E-QXM 3610-10W Open Mold	
	(EA)x	126,197 lb/in	22,099 N/mm	136,583 lb/in
(EA)y	143,941 lb/in	25,207 N/mm	155,429 lb/in	27,218 N/mm
(GA)xy	47,169 lb/in	8,260 N/mm	51,111 lb/in	8,951 N/mm

Ultimate In-Plane Load

	E-QXM 3610-10W Resin Infused		E-QXM 3610-10W Open Mold	
	Long. Ten.	2,070 lb/in	362 N/mm	2,240 lb/in
Long. Comp.	2,389 lb/in	418 N/mm	2,586 lb/in	453 N/mm
Trans. Ten.	2,361 lb/in	413 N/mm	2,549 lb/in	446 N/mm
Trans. Comp.	2,725 lb/in	477 N/mm	2,943 lb/in	515 N/mm
In-Plane Shear	893 lb/in	156 N/mm	968 lb/in	169 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

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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.