



## E-QXM 6410

Fiber Type: E-Glass  
 Architecture: 0/45/90/-45 Quadraxial  
 Dry Thickness: 0.081 in. / 2.06 mm  
 Total Weight: 71.98 oz/sq.yd / 2441 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 225 lb / 102 kg	Roll Length: 35 yd / 32 m	0 ° :	12.80 oz/sq.yd / 434 g/sq.m
			45 ° :	16.13 oz/sq.yd / 547 g/sq.m
			90 ° :	17.92 oz/sq.yd / 608 g/sq.m
			-45 ° :	16.13 oz/sq.yd / 547 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 6410 Resin Infused		E-QXM 6410 Open Mold	
Fiber	0.50 lb/sq.ft	2.44 kg/sq.m	0.50 lb/sq.ft	2.44 kg/sq.m
Resin	0.24 lb/sq.ft	1.18 kg/sq.m	0.48 lb/sq.ft	2.34 kg/sq.m
Total	0.74 lb/sq.ft	3.62 kg/sq.m	0.98 lb/sq.ft	4.78 kg/sq.m

Physical Properties				
	E-QXM 6410 Resin Infused		E-QXM 6410 Open Mold	
Density	1.08 oz/cu.in	1.86 g/cc	0.95 oz/cu.in	1.64 g/cc
Fiber Content	67% by Wt.	49% by Vol.	51% by Wt.	33% by Vol.
Thickness	0.077 in	1.9 mm	0.115 in	2.9 mm

**Laminate Moduli**

	E-QXM 6410 Resin Infused		E-QXM 6410 Open Mold	
	Ex	2.68 MSI	18.47 GPa	1.91 MSI
Ey	2.91 MSI	20.03 GPa	2.07 MSI	14.25 GPa
Gxy	1.09 MSI	7.50 GPa	0.77 MSI	5.32 GPa
Ex,flex.	2.54 MSI	17.55 GPa	1.81 MSI	12.48 GPa
Ey,flex.	2.76 MSI	19.03 GPa	1.96 MSI	13.54 GPa

**Ultimate Stress**

	E-QXM 6410 Resin Infused		E-QXM 6410 Open Mold	
	Long. Ten.	43.9 KSI	302.9 MPa	31.2 KSI
Long. Comp.	50.7 KSI	349.7 MPa	36.1 KSI	248.7 MPa
Trans. Ten.	47.7 KSI	328.5 MPa	33.9 KSI	233.7 MPa
Trans. Comp.	55.0 KSI	379.3 MPa	39.1 KSI	269.8 MPa
In-Plane Shear	20.6 KSI	142.0 MPa	14.6 KSI	100.8 MPa
Long. Flex.	60.5 KSI	417.4 MPa	43.1 KSI	296.9 MPa
Trans. Flex.	65.7 KSI	452.7 MPa	46.7 KSI	322.0 MPa

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

	E-QXM 6410 Resin Infused		E-QXM 6410 Open Mold	
	(EA)x	205,429 lb/in	35,974 N/mm	218,355 lb/in
(EA)y	222,824 lb/in	39,021 N/mm	236,843 lb/in	41,476 N/mm
(GA)xy	83,446 lb/in	14,613 N/mm	88,475 lb/in	15,494 N/mm

**Ultimate In-Plane Load**

	E-QXM 6410 Resin Infused		E-QXM 6410 Open Mold	
	Long. Ten.	3,369 lb/in	590 N/mm	3,581 lb/in
Long. Comp.	3,889 lb/in	681 N/mm	4,134 lb/in	724 N/mm
Trans. Ten.	3,654 lb/in	640 N/mm	3,884 lb/in	680 N/mm
Trans. Comp.	4,219 lb/in	739 N/mm	4,484 lb/in	785 N/mm
In-Plane Shear	1,580 lb/in	277 N/mm	1,675 lb/in	293 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:**

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.