



E-QX 5300

Fiber Type: E-Glass
 Architecture: 0°/+45°/90°/-45° Quadaxial
 Dry Thickness: 0.070 in. / 1.78 mm
 Total Weight: 53.14 oz/sq.yd / 1802 g/sq.m



Roll Specifications

Roll Width: 50 in / 1270 mm
 Roll Weight: 219 lb / 100 kg
 Roll Length: 47 yd / 43 m

Fiber Architecture Data

0 ° : 13.21 oz/sq.yd / 448 g/sq.m
 45 ° : 13.14 oz/sq.yd / 446 g/sq.m
 90 ° : 13.65 oz/sq.yd / 463 g/sq.m
 - 45 ° : 13.14 oz/sq.yd / 446 g/sq.m
 Chopped Mat : n/a

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight (lb/sq.ft)		
	E-QX 5300 Resin Infused	E-QX 5300 Open Mold
Fiber	0.37	0.37
Resin	0.17	0.30
Total	0.54	0.67

Physical Properties

	E-QX 5300 Resin Infused	E-QX 5300 Open Mold
Density (g/cc)	1.87	1.69
Fiber Content (% by Wt.)	68%	55%
Thickness (in)	0.056	0.076

Laminate Moduli		
(MSI)	E-QX 5300 Resin Infused	E-QX 5300 Open Mold
Ex	2.76	2.06
Ey	2.78	2.08
Gxy	1.01	0.75
Ex,flex.	2.28	1.70
Ey,flex.	2.31	1.72

Ultimate Stress		
(KSI)	E-QX 5300 Resin Infused	E-QX 5300 Open Mold
Long. Ten.	52	39
Long. Comp.	52	39
Trans. Ten.	53	39
Trans. Comp.	53	39
In-Plane Shear	29	21
Long. Flex.	66	49
Trans. Flex.	66	50

In-Plane Stiffness, "EA"		
10 ^{^3} lb/in	E-QX 5300 Resin Infused	E-QX 5300 Open Mold
(EA)x	153	158
(EA)y	154	159
(GA)xy	56	57

Ultimate In-Plane Load		
lb/in	E-QX 5300 Resin Infused	E-QX 5300 Open Mold
Long. Ten.	2,897	2,982
Long. Comp.	2,897	2,982
Trans. Ten.	2,925	3,011
Trans. Comp.	2,925	3,011
In-Plane Shear	1,585	1,626

Notes:

- 1: Resin infused laminate made with vinyl ester resin 200 cps viscosity @ 77° F.
- 2: Open mold laminate made with polyester resin.
- 3: All standard reinforcements should be infused with a flow aid or Vectorfusion® reinforcements.



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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.