



E-QX 10200

Fiber Type: E-Glass
 Architecture: 0/45/90/-45 Quadraxial
 Dry Thickness: 0.097 in. / 2.46 mm
 Total Weight: 100.89 oz/sq.yd / 3421 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 179 lb / 81 kg	Roll Length: 20 yd / 18 m	0 ° :	50.97 oz/sq.yd / 1728 g/sq.m
			45 ° :	17.92 oz/sq.yd / 608 g/sq.m
			90 ° :	14.08 oz/sq.yd / 477 g/sq.m
			-45 ° :	17.92 oz/sq.yd / 608 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				
	E-QX 10200 Resin Infused		E-QX 10200 Open Mold	
Fiber	0.70 lb/sq.ft	3.42 kg/sq.m	0.70 lb/sq.ft	3.42 kg/sq.m
Resin	0.33 lb/sq.ft	1.61 kg/sq.m	0.57 lb/sq.ft	2.80 kg/sq.m
Total	1.03 lb/sq.ft	5.03 kg/sq.m	1.27 lb/sq.ft	6.22 kg/sq.m

Physical Properties				
	E-QX 10200 Resin Infused		E-QX 10200 Open Mold	
Density	1.08 oz/cu.in	1.87 g/cc	0.98 oz/cu.in	1.69 g/cc
Fiber Content	68% by Wt.	50% by Vol.	55% by Wt.	37% by Vol.
Thickness	0.106 in	2.7 mm	0.145 in	3.7 mm

Laminate Moduli

	E-QX 10200 Resin Infused		E-QX 10200 Open Mold	
	Ex	3.83 MSI	26.39 GPa	2.90 MSI
Ey	2.60 MSI	17.94 GPa	1.95 MSI	13.44 GPa
Gxy	0.99 MSI	6.83 GPa	0.75 MSI	5.14 GPa
Ex,flex.	3.64 MSI	25.07 GPa	2.76 MSI	19.00 GPa
Ey,flex.	2.47 MSI	17.05 GPa	1.85 MSI	12.77 GPa

Ultimate Stress

	E-QX 10200 Resin Infused		E-QX 10200 Open Mold	
	Long. Ten.	72.5 KSI	499.6 MPa	54.9 KSI
Long. Comp.	72.5 KSI	499.6 MPa	54.9 KSI	378.6 MPa
Trans. Ten.	49.3 KSI	339.7 MPa	36.9 KSI	254.4 MPa
Trans. Comp.	49.3 KSI	339.7 MPa	36.9 KSI	254.4 MPa
In-Plane Shear	18.8 KSI	129.3 MPa	14.1 KSI	97.3 MPa
Long. Flex.	86.5 KSI	596.3 MPa	65.5 KSI	451.9 MPa
Trans. Flex.	58.8 KSI	405.5 MPa	44.0 KSI	303.7 MPa

In-Plane Stiffness, "EA"

	E-QX 10200 Resin Infused		E-QX 10200 Open Mold	
	(EA)x	405,147 lb/in	70,949 N/mm	420,147 lb/in
(EA)y	275,488 lb/in	48,243 N/mm	282,356 lb/in	49,446 N/mm
(GA)xy	104,844 lb/in	18,360 N/mm	108,005 lb/in	18,914 N/mm

Ultimate In-Plane Load

	E-QX 10200 Resin Infused		E-QX 10200 Open Mold	
	Long. Ten.	7,670 lb/in	1,343 N/mm	7,954 lb/in
Long. Comp.	7,670 lb/in	1,343 N/mm	7,954 lb/in	1,393 N/mm
Trans. Ten.	5,216 lb/in	913 N/mm	5,346 lb/in	936 N/mm
Trans. Comp.	5,216 lb/in	913 N/mm	5,346 lb/in	936 N/mm
In-Plane Shear	1,985 lb/in	348 N/mm	2,045 lb/in	358 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.