



E-QX 1900

Fiber Type: E-Glass
 Architecture: 0/45/90/-45 Quadraxial
 Dry Thickness: 0.027 in. / 0.69 mm
 Total Weight: 20.68 oz/sq.yd / 701 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 223 lb / 101 kg	Roll Length: 120 yd / 110 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 :	n/a

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight

	E-QX 1900 Resin Infused		E-QX 1900 Open Mold	
Fiber	0.14 lb/sq.ft	0.70 kg/sq.m	0.14 lb/sq.ft	0.70 kg/sq.m
Resin	0.07 lb/sq.ft	0.33 kg/sq.m	0.12 lb/sq.ft	0.57 kg/sq.m
Total	0.21 lb/sq.ft	1.03 kg/sq.m	0.26 lb/sq.ft	1.27 kg/sq.m

Physical Properties

	E-QX 1900 Resin Infused		E-QX 1900 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	0.022 in	0.6 mm	0.030 in	0.8 mm

Laminate Moduli

	E-QX 1900 Resin Infused		E-QX 1900 Open Mold	
	Ex	4.20 MSI	28.98 GPa	3.19 MSI
Ey	2.38 MSI	16.38 GPa	1.77 MSI	12.21 GPa
Gxy	0.94 MSI	6.46 GPa	0.71 MSI	4.86 GPa
Ex,flex.	3.99 MSI	27.53 GPa	3.03 MSI	20.89 GPa
Ey,flex.	2.26 MSI	15.56 GPa	1.68 MSI	11.60 GPa

Ultimate Stress

	E-QX 1900 Resin Infused		E-QX 1900 Open Mold	
	Long. Ten.	79.6 KSI	548.7 MPa	60.4 KSI
Long. Comp.	79.6 KSI	548.7 MPa	60.4 KSI	416.4 MPa
Trans. Ten.	45.0 KSI	310.1 MPa	33.5 KSI	231.1 MPa
Trans. Comp.	45.0 KSI	310.1 MPa	33.5 KSI	231.1 MPa
In-Plane Shear	17.7 KSI	122.3 MPa	13.4 KSI	92.1 MPa
Long. Flex.	95.0 KSI	654.9 MPa	72.1 KSI	497.0 MPa
Trans. Flex.	53.7 KSI	370.1 MPa	40.0 KSI	275.9 MPa

In-Plane Stiffness, "EA"

	E-QX 1900 Resin Infused		E-QX 1900 Open Mold	
	(EA)x	91,203 lb/in	15,971 N/mm	94,724 lb/in
(EA)y	51,541 lb/in	9,026 N/mm	52,579 lb/in	9,208 N/mm
(GA)xy	20,335 lb/in	3,561 N/mm	20,949 lb/in	3,669 N/mm

Ultimate In-Plane Load

	E-QX 1900 Resin Infused		E-QX 1900 Open Mold	
	Long. Ten.	1,727 lb/in	302 N/mm	1,793 lb/in
Long. Comp.	1,727 lb/in	302 N/mm	1,793 lb/in	314 N/mm
Trans. Ten.	976 lb/in	171 N/mm	995 lb/in	174 N/mm
Trans. Comp.	976 lb/in	171 N/mm	995 lb/in	174 N/mm
In-Plane Shear	385 lb/in	67 N/mm	397 lb/in	69 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.