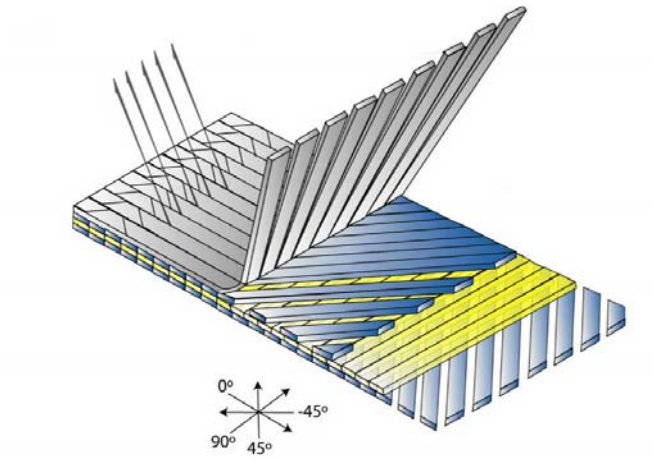
VECTORPLY®
Performance Composite Reinforcements



E-QX 4800

Fiber Type: E-Glass
Architecture: 0/45/90/-45 Quadraxial
Dry Thickness: 0.060 in. / 1.52 mm
Total Weight: 48.22 oz/sq.yd / 1635 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	12.80 oz/sq.yd / 434 g/sq.m
50 in / 1270 mm	222 lb / 101 kg	52 yd / 48 m	45 ° :	11.95 oz/sq.yd / 405 g/sq.m
			90 ° :	11.52 oz/sq.yd / 391 g/sq.m
			-45 ° :	11.95 oz/sq.yd / 405 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 4800 Resin Infused		E-QX 4800 Open Mold	
Fiber	0.33 lb/sq.ft	1.63 kg/sq.m	0.33 lb/sq.ft	1.63 kg/sq.m
Resin	0.16 lb/sq.ft	0.77 kg/sq.m	0.27 lb/sq.ft	1.34 kg/sq.m
Total	0.49 lb/sq.ft	2.40 kg/sq.m	0.61 lb/sq.ft	2.97 kg/sq.m

Physical Properties	E-QX 4800 Resin Infused		E-QX 4800 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	0.051 in	1.3 mm	0.069 in	1.8 mm

Laminate Modulii				
	E-QX 4800 Resin Infused		E-QX 4800 Open Mold	
Ex	3.03 MSI	20.89 GPa	2.29 MSI	15.76 GPa
Ey	2.94 MSI	20.29 GPa	2.22 MSI	15.30 GPa
Gxy	1.14 MSI	7.83 GPa	0.85 MSI	5.89 GPa
Ex,flex.	2.88 MSI	19.84 GPa	2.17 MSI	14.97 GPa
Ey,flex.	2.80 MSI	19.28 GPa	2.11 MSI	14.54 GPa

Ultimate Stress				
	E-QX 4800 Resin Infused		E-QX 4800 Open Mold	
Long. Ten.	57.4 KSI	395.5 MPa	43.3 KSI	298.4 MPa
Long. Comp.	57.4 KSI	395.5 MPa	43.3 KSI	298.4 MPa
Trans. Ten.	55.7 KSI	384.2 MPa	42.0 KSI	289.7 MPa
Trans. Comp.	55.7 KSI	384.2 MPa	42.0 KSI	289.7 MPa
In-Plane Shear	21.5 KSI	148.2 MPa	16.2 KSI	111.6 MPa
Long. Flex.	68.5 KSI	472.0 MPa	51.7 KSI	356.2 MPa
Trans. Flex.	66.5 KSI	458.6 MPa	50.1 KSI	345.7 MPa

In-Plane Stiffness, "EA"				
	E-QX 4800 Resin Infused		E-QX 4800 Open Mold	
(EA)x	153,278 lb/in	26,842 N/mm	158,285 lb/in	27,719 N/mm
(EA)y	148,915 lb/in	26,078 N/mm	153,649 lb/in	26,907 N/mm
(GA)xy	57,445 lb/in	10,060 N/mm	59,171 lb/in	10,362 N/mm

Ultimate In-Plane Load				
	E-QX 4800 Resin Infused		E-QX 4800 Open Mold	
Long. Ten.	2,902 lb/in	508 N/mm	2,997 lb/in	525 N/mm
Long. Comp.	2,902 lb/in	508 N/mm	2,997 lb/in	525 N/mm
Trans. Ten.	2,819 lb/in	494 N/mm	2,909 lb/in	509 N/mm
Trans. Comp.	2,819 lb/in	494 N/mm	2,909 lb/in	509 N/mm
In-Plane Shear	1,088 lb/in	190 N/mm	1,120 lb/in	196 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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