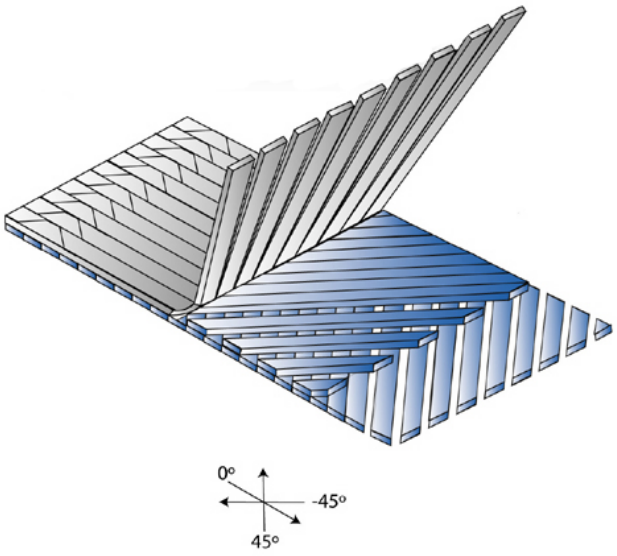
VECTORPLY®
Performance Composite Reinforcements



E-TLX 3300

Fiber Type: E-Glass
Architecture: 0/45/-45 Warp Triaxial
Dry Thickness: 0.042 in. / 1.07 mm
Total Weight: 33.28 oz/sq.yd / 1128 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	15.36 oz/sq.yd / 521 g/sq.m
50 in / 1270 mm	219 lb / 100 kg	74 yd / 68 m	45 ° :	8.96 oz/sq.yd / 304 g/sq.m
			90 ° :	n/a
			-45 ° :	8.96 oz/sq.yd / 304 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-TLX 3300 Resin Infused		E-TLX 3300 Open Mold	
Fiber	0.23 lb/sq.ft	1.13 kg/sq.m	0.23 lb/sq.ft	1.13 kg/sq.m
Resin	0.10 lb/sq.ft	0.48 kg/sq.m	0.19 lb/sq.ft	0.92 kg/sq.m
Total	0.33 lb/sq.ft	1.61 kg/sq.m	0.42 lb/sq.ft	2.05 kg/sq.m

Physical Properties	E-TLX 3300 Resin Infused		E-TLX 3300 Open Mold	
Density	1.10 oz/cu.in	1.90 g/cc	0.98 oz/cu.in	1.69 g/cc
Fiber Content	70% by Wt.	52% by Vol.	55% by Wt.	37% by Vol.
Thickness	0.033 in	0.8 mm	0.048 in	1.2 mm

Laminate Modulii	E-TLX 3300 Resin Infused		E-TLX 3300 Open Mold	
Ex	3.91 MSI	26.94 GPa	2.82 MSI	19.46 GPa
Ey	2.18 MSI	15.00 GPa	1.55 MSI	10.71 GPa
Gxy	1.27 MSI	8.78 GPa	0.91 MSI	6.28 GPa
Ex,flex.	3.71 MSI	25.60 GPa	2.68 MSI	18.49 GPa
Ey,flex.	2.07 MSI	14.25 GPa	1.48 MSI	10.17 GPa

Ultimate Stress	E-TLX 3300 Resin Infused		E-TLX 3300 Open Mold	
Long. Ten.	74.0 KSI	510.1 MPa	53.4 KSI	368.4 MPa
Long. Comp.	74.0 KSI	510.1 MPa	53.4 KSI	368.4 MPa
Trans. Ten.	21.8 KSI	150.0 MPa	15.5 KSI	107.1 MPa
Trans. Comp.	21.8 KSI	150.0 MPa	15.5 KSI	107.1 MPa
In-Plane Shear	24.1 KSI	166.3 MPa	17.2 KSI	118.9 MPa
Long. Flex.	88.3 KSI	608.9 MPa	63.8 KSI	439.7 MPa
Trans. Flex.	20.7 KSI	142.5 MPa	14.8 KSI	101.7 MPa

In-Plane Stiffness, "EA"	E-TLX 3300 Resin Infused		E-TLX 3300 Open Mold	
(EA)x	130,379 lb/in	22,832 N/mm	134,867 lb/in	23,618 N/mm
(EA)y	72,572 lb/in	12,709 N/mm	74,216 lb/in	12,997 N/mm
(GA)xy	42,499 lb/in	7,442 N/mm	43,538 lb/in	7,624 N/mm

Ultimate In-Plane Load	E-TLX 3300 Resin Infused		E-TLX 3300 Open Mold	
Long. Ten.	2,468 lb/in	432 N/mm	2,553 lb/in	447 N/mm
Long. Comp.	2,468 lb/in	432 N/mm	2,553 lb/in	447 N/mm
Trans. Ten.	726 lb/in	127 N/mm	742 lb/in	130 N/mm
Trans. Comp.	726 lb/in	127 N/mm	742 lb/in	130 N/mm
In-Plane Shear	805 lb/in	141 N/mm	824 lb/in	144 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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