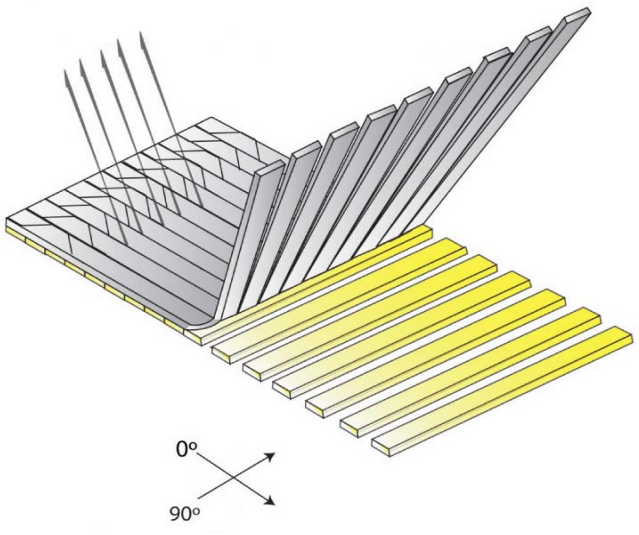
VECTORPLY®
Performance Composite Reinforcements



E-LT 3200

Fiber Type: E-Glass
Architecture: 0/90 Biaxial
Dry Thickness: 0.033 in. / 0.84 mm
Total Weight: 31.36 oz/sq.yd / 1063 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	17.92 oz/sq.yd / 608 g/sq.m
50 in / 1270 mm	189 lb / 86 kg	68 yd / 62 m	45 ° :	n/a
			90 ° :	13.44 oz/sq.yd / 456 g/sq.m
			-45 ° :	n/a
			Chopped Mat :	n/a

1: Packaging: box or bag.
2: Weights do not include polyester stitching.

Laminated Properties 0 ° 0 °

Laminate Weight	E-LT 3200 Resin Infused		E-LT 3200 Open Mold	
Fiber	0.22 lb/sq.ft	1.06 kg/sq.m	0.22 lb/sq.ft	1.06 kg/sq.m
Resin	0.09 lb/sq.ft	0.46 kg/sq.m	0.18 lb/sq.ft	0.87 kg/sq.m
Total	0.31 lb/sq.ft	1.52 kg/sq.m	0.40 lb/sq.ft	1.93 kg/sq.m

Physical Properties	E-LT 3200 Resin Infused		E-LT 3200 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	0.031 in	0.8 mm	0.045 in	1.1 mm

Laminate Modulii				
	E-LT 3200 Resin Infused		E-LT 3200 Open Mold	
Ex	4.17 MSI	28.75 GPa	3.02 MSI	20.81 GPa
Ey	3.65 MSI	25.17 GPa	2.63 MSI	18.11 GPa
Gxy	0.66 MSI	4.53 GPa	0.47 MSI	3.24 GPa
Ex,flex.	3.96 MSI	27.31 GPa	2.87 MSI	19.77 GPa
Ey,flex.	3.47 MSI	23.91 GPa	2.50 MSI	17.20 GPa

Ultimate Stress				
	E-LT 3200 Resin Infused		E-LT 3200 Open Mold	
Long. Ten.	78.9 KSI	544.2 MPa	57.1 KSI	393.9 MPa
Long. Comp.	78.9 KSI	544.2 MPa	57.1 KSI	393.9 MPa
Trans. Ten.	69.1 KSI	476.5 MPa	49.7 KSI	342.9 MPa
Trans. Comp.	69.1 KSI	476.5 MPa	49.7 KSI	342.9 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	9.4 KSI	64.8 MPa
Long. Flex.	94.2 KSI	649.6 MPa	68.2 KSI	470.2 MPa
Trans. Flex.	82.5 KSI	568.7 MPa	59.4 KSI	409.2 MPa

In-Plane Stiffness, "EA"				
	E-LT 3200 Resin Infused		E-LT 3200 Open Mold	
(EA)x	131,087 lb/in	22,956 N/mm	135,899 lb/in	23,798 N/mm
(EA)y	114,759 lb/in	20,096 N/mm	118,290 lb/in	20,715 N/mm
(GA)xy	20,666 lb/in	3,619 N/mm	21,148 lb/in	3,703 N/mm

Ultimate In-Plane Load				
	E-LT 3200 Resin Infused		E-LT 3200 Open Mold	
Long. Ten.	2,482 lb/in	435 N/mm	2,573 lb/in	451 N/mm
Long. Comp.	2,482 lb/in	435 N/mm	2,573 lb/in	451 N/mm
Trans. Ten.	2,173 lb/in	380 N/mm	2,239 lb/in	392 N/mm
Trans. Comp.	2,173 lb/in	380 N/mm	2,239 lb/in	392 N/mm
In-Plane Shear	413 lb/in	72 N/mm	423 lb/in	74 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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