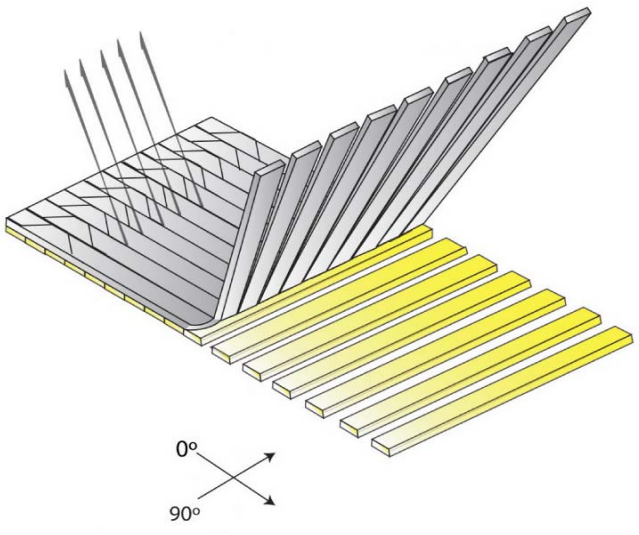
VECTORPLY®
Performance Composite Reinforcements



E-LT 4400

Fiber Type: E-Glass
Architecture: 0/90 Biaxial
Dry Thickness: 0.043 in. / 1.09 mm
Total Weight: 43.75 oz/sq.yd / 1483 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	21.76 oz/sq.yd / 738 g/sq.m
50 in / 1270 mm	195 lb / 89 kg	51 yd / 47 m	45 ° :	n/a
			90 ° :	21.99 oz/sq.yd / 746 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 4400 Resin Infused		E-LT 4400 Open Mold	
Fiber	0.30 lb/sq.ft	1.48 kg/sq.m	0.30 lb/sq.ft	1.48 kg/sq.m
Resin	0.13 lb/sq.ft	0.64 kg/sq.m	0.25 lb/sq.ft	1.21 kg/sq.m
Total	0.43 lb/sq.ft	2.12 kg/sq.m	0.55 lb/sq.ft	2.70 kg/sq.m

Physical Properties	E-LT 4400 Resin Infused		E-LT 4400 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	0.044 in	1.1 mm	0.063 in	1.6 mm

Laminate Modulii				
	E-LT 4400 Resin Infused		E-LT 4400 Open Mold	
Ex	3.90 MSI	26.89 GPa	2.82 MSI	19.41 GPa
Ey	3.92 MSI	27.03 GPa	2.83 MSI	19.51 GPa
Gxy	0.66 MSI	4.53 GPa	0.47 MSI	3.24 GPa
Ex,flex.	3.71 MSI	25.55 GPa	2.67 MSI	18.44 GPa
Ey,flex.	3.72 MSI	25.67 GPa	2.69 MSI	18.53 GPa

Ultimate Stress				
	E-LT 4400 Resin Infused		E-LT 4400 Open Mold	
Long. Ten.	73.8 KSI	509.2 MPa	53.3 KSI	367.5 MPa
Long. Comp.	73.8 KSI	509.2 MPa	53.3 KSI	367.5 MPa
Trans. Ten.	74.2 KSI	511.7 MPa	53.6 KSI	369.4 MPa
Trans. Comp.	74.2 KSI	511.7 MPa	53.6 KSI	369.4 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	9.4 KSI	64.8 MPa
Long. Flex.	88.1 KSI	607.7 MPa	63.6 KSI	438.6 MPa
Trans. Flex.	88.6 KSI	610.7 MPa	63.9 KSI	440.9 MPa

In-Plane Stiffness, "EA"				
	E-LT 4400 Resin Infused		E-LT 4400 Open Mold	
(EA)x	171,082 lb/in	29,959 N/mm	176,871 lb/in	30,973 N/mm
(EA)y	171,920 lb/in	30,106 N/mm	177,775 lb/in	31,132 N/mm
(GA)xy	28,831 lb/in	5,049 N/mm	29,503 lb/in	5,167 N/mm

Ultimate In-Plane Load				
	E-LT 4400 Resin Infused		E-LT 4400 Open Mold	
Long. Ten.	3,239 lb/in	567 N/mm	3,349 lb/in	586 N/mm
Long. Comp.	3,239 lb/in	567 N/mm	3,349 lb/in	586 N/mm
Trans. Ten.	3,255 lb/in	570 N/mm	3,366 lb/in	589 N/mm
Trans. Comp.	3,255 lb/in	570 N/mm	3,366 lb/in	589 N/mm
In-Plane Shear	577 lb/in	101 N/mm	590 lb/in	103 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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