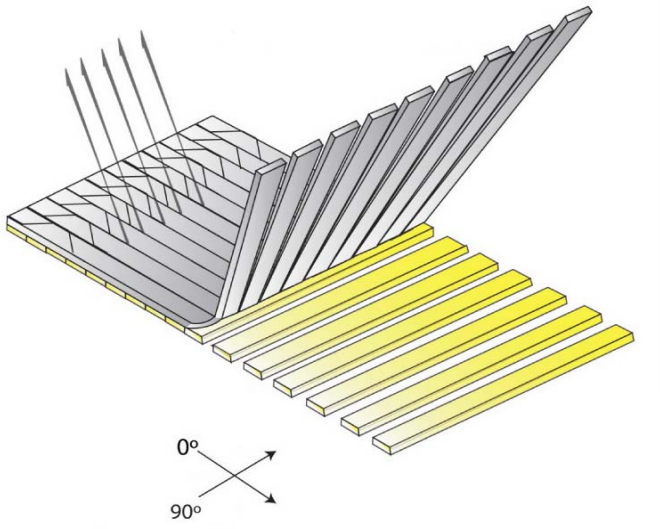
VECTORPLY®
Performance Composite Reinforcements



E-LT 2900

Fiber Type: E-Glass
Architecture: 0/90 Biaxial
Dry Thickness: 0.032 in. / 0.81 mm
Total Weight: 31.32 oz/sq.yd / 1062 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	27.96 oz/sq.yd / 948 g/sq.m
50 in / 1270 mm	220 lb / 100 kg	80 yd / 73 m	45 ° :	n/a
			90 ° :	3.36 oz/sq.yd / 114 g/sq.m
			-45 ° :	n/a
			Duraspun :	n/a

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

Laminated Properties 0 ° 0 °

Laminate Weight	E-LT 2900 Resin Infused		E-LT 2900 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 2900 Resin Infused		E-LT 2900 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 2900 Resin Infused		E-LT 2900 Open Mold	
Ex	5.32 MSI	36.71 GPa	3.89 MSI	26.79 GPa
Ey	2.48 MSI	17.07 GPa	1.74 MSI	12.01 GPa
Gxy	0.66 MSI	4.53 GPa	0.47 MSI	3.24 GPa
Ex,flex.	5.06 MSI	34.87 GPa	3.69 MSI	25.45 GPa
Ey,flex.	2.35 MSI	16.22 GPa	1.65 MSI	11.41 GPa

Ultimate Stress				
	E-LT 2900 Resin Infused		E-LT 2900 Open Mold	
Long. Ten.	100.8 KSI	694.9 MPa	73.6 KSI	507.2 MPa
Long. Comp.	100.8 KSI	694.9 MPa	73.6 KSI	507.2 MPa
Trans. Ten.	46.9 KSI	323.2 MPa	33.0 KSI	227.4 MPa
Trans. Comp.	46.9 KSI	323.2 MPa	33.0 KSI	227.4 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	9.4 KSI	64.8 MPa
Long. Flex.	120.3 KSI	829.5 MPa	87.8 KSI	605.4 MPa
Trans. Flex.	55.9 KSI	385.7 MPa	39.4 KSI	271.4 MPa

In-Plane Stiffness, "EA"				
	E-LT 2900 Resin Infused		E-LT 2900 Open Mold	
(EA)x	167,168 lb/in	29,274 N/mm	174,761 lb/in	30,604 N/mm
(EA)y	77,738 lb/in	13,613 N/mm	78,357 lb/in	13,722 N/mm
(GA)xy	20,640 lb/in	3,614 N/mm	21,121 lb/in	3,699 N/mm

Ultimate In-Plane Load				
	E-LT 2900 Resin Infused		E-LT 2900 Open Mold	
Long. Ten.	3,165 lb/in	554 N/mm	3,309 lb/in	579 N/mm
Long. Comp.	3,165 lb/in	554 N/mm	3,309 lb/in	579 N/mm
Trans. Ten.	1,472 lb/in	258 N/mm	1,483 lb/in	260 N/mm
Trans. Comp.	1,472 lb/in	258 N/mm	1,483 lb/in	260 N/mm
In-Plane Shear	413 lb/in	72 N/mm	422 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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