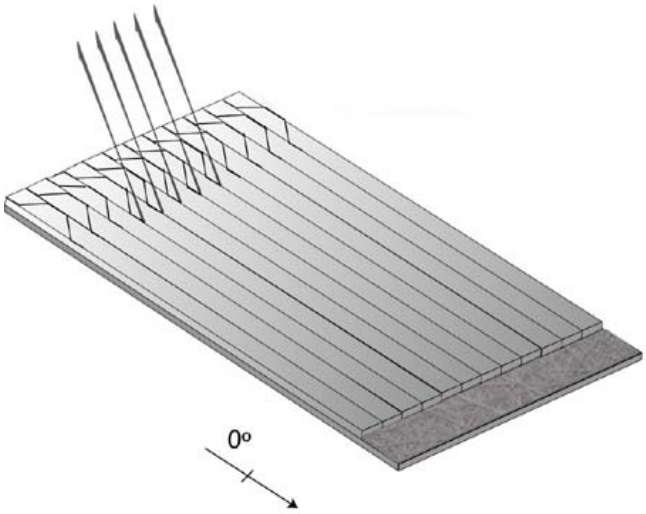
VECTORPLY®
Performance Composite Reinforcements



E-LR 1708

Fiber Type: E-Glass
Architecture: 0 Warp Unidirectional
Dry Thickness: 0.026 in. / 0.66 mm
Total Weight: 18.82 oz/sq.yd / 638 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	196 lb / 89 kg	117 yd / 107 m	45 ° :	n/a
			90 ° :	n/a
			-45 ° :	n/a
			Polyester Veil :	0.90 oz/sq.yd / 31 g/sq.m

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

Laminated Properties

0 °

0 °

Laminate Weight	E-LR 1708 Resin Infused		E-LR 1708 Open Mold	
Fiber	0.13 lb/sq.ft	0.64 kg/sq.m	0.13 lb/sq.ft	0.64 kg/sq.m
Resin	0.06 lb/sq.ft	0.29 kg/sq.m	0.11 lb/sq.ft	0.56 kg/sq.m
Total	0.19 lb/sq.ft	0.93 kg/sq.m	0.24 lb/sq.ft	1.19 kg/sq.m

Physical Properties	E-LR 1708 Resin Infused		E-LR 1708 Open Mold	
Density	1.07 oz/cu.in	1.85 g/cc	0.95 oz/cu.in	1.65 g/cc
Fiber Content	69% by Wt.	52% by Vol.	53% by Wt.	36% by Vol.
Thickness	0.020 in	0.5 mm	0.029 in	0.7 mm

Laminate Modulii	E-LR 1708 Resin Infused		E-LR 1708 Open Mold	
Ex	5.24 MSI	36.14 GPa	3.81 MSI	26.30 GPa
Ey	1.60 MSI	11.03 GPa	1.16 MSI	7.98 GPa
Gxy	0.76 MSI	5.22 GPa	0.53 MSI	3.63 GPa
Ex,flex.	4.98 MSI	34.33 GPa	3.62 MSI	24.98 GPa
Ey,flex.	1.52 MSI	10.48 GPa	1.10 MSI	7.58 GPa

Ultimate Stress	E-LR 1708 Resin Infused		E-LR 1708 Open Mold	
Long. Ten.	99.2 KSI	684.2 MPa	72.2 KSI	497.9 MPa
Long. Comp.	99.2 KSI	684.2 MPa	72.2 KSI	497.9 MPa
Trans. Ten.	32.0 KSI	220.5 MPa	23.1 KSI	159.6 MPa
Trans. Comp.	32.0 KSI	220.5 MPa	23.1 KSI	159.6 MPa
In-Plane Shear	15.1 KSI	104.3 MPa	10.5 KSI	72.7 MPa
Long. Flex.	99.6 KSI	686.7 MPa	72.5 KSI	499.6 MPa
Trans. Flex.	30.4 KSI	209.5 MPa	22.0 KSI	151.6 MPa

In-Plane Stiffness, "EA"	E-LR 1708 Resin Infused		E-LR 1708 Open Mold	
(EA)x	103,381 lb/in	18,104 N/mm	108,873 lb/in	19,066 N/mm
(EA)y	31,542 lb/in	5,524 N/mm	33,030 lb/in	5,784 N/mm
(GA)xy	14,919 lb/in	2,613 N/mm	15,040 lb/in	2,634 N/mm

Ultimate In-Plane Load	E-LR 1708 Resin Infused		E-LR 1708 Open Mold	
Long. Ten.	1,957 lb/in	343 N/mm	2,061 lb/in	361 N/mm
Long. Comp.	1,957 lb/in	343 N/mm	2,061 lb/in	361 N/mm
Trans. Ten.	631 lb/in	110 N/mm	661 lb/in	116 N/mm
Trans. Comp.	631 lb/in	110 N/mm	661 lb/in	116 N/mm
In-Plane Shear	298 lb/in	52 N/mm	301 lb/in	53 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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