



E-LR 1208

Fiber Type: E-Glass
 Architecture: 0 Warp Unidirectional
 Dry Thickness: 0.019 in. / 0.48 mm
 Total Weight: 12.85 oz/sq.yd / 436 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 152 lb / 69 kg	Roll Length: 131 yd / 120 m	0 ° : 11.95 oz/sq.yd / 405 g/sq.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 1208 Resin Infused		E-LR 1208 Open Mold	
Fiber	0.09 lb/sq.ft	0.44 kg/sq.m	0.09 lb/sq.ft	0.44 kg/sq.m
Resin	0.04 lb/sq.ft	0.20 kg/sq.m	0.08 lb/sq.ft	0.39 kg/sq.m
Total	0.13 lb/sq.ft	0.64 kg/sq.m	0.17 lb/sq.ft	0.83 kg/sq.m

Physical Properties				
	E-LR 1208 Resin Infused		E-LR 1208 Open Mold	
Density	1.05 oz/cu.in	1.82 g/cc	0.94 oz/cu.in	1.63 g/cc
Fiber Content	68% by Wt.	52% by Vol.	53% by Wt.	36% by Vol.
Thickness	0.014 in	0.3 mm	0.020 in	0.5 mm

Laminate Moduli

	E-LR 1208 Resin Infused		E-LR 1208 Open Mold	
	Ex	5.04 MSI	34.77 GPa	3.66 MSI
Ey	1.56 MSI	10.73 GPa	1.13 MSI	7.80 GPa
Gxy	0.73 MSI	5.06 GPa	0.51 MSI	3.54 GPa
Ex,flex.	4.79 MSI	33.03 GPa	3.48 MSI	23.99 GPa
Ey,flex.	1.48 MSI	10.19 GPa	1.07 MSI	7.41 GPa

Ultimate Stress

	E-LR 1208 Resin Infused		E-LR 1208 Open Mold	
	Long. Ten.	95.5 KSI	658.2 MPa	69.3 KSI
Long. Comp.	95.5 KSI	658.2 MPa	69.3 KSI	478.1 MPa
Trans. Ten.	31.1 KSI	214.6 MPa	22.6 KSI	156.0 MPa
Trans. Comp.	31.1 KSI	214.6 MPa	22.6 KSI	156.0 MPa
In-Plane Shear	14.7 KSI	101.2 MPa	10.3 KSI	70.7 MPa
Long. Flex.	95.8 KSI	660.6 MPa	69.6 KSI	479.8 MPa
Trans. Flex.	29.6 KSI	203.9 MPa	21.5 KSI	148.2 MPa

In-Plane Stiffness, "EA"

	E-LR 1208 Resin Infused		E-LR 1208 Open Mold	
	(EA)x	69,271 lb/in	12,131 N/mm	73,152 lb/in
(EA)y	21,379 lb/in	3,744 N/mm	22,599 lb/in	3,958 N/mm
(GA)xy	10,079 lb/in	1,765 N/mm	10,245 lb/in	1,794 N/mm

Ultimate In-Plane Load

	E-LR 1208 Resin Infused		E-LR 1208 Open Mold	
	Long. Ten.	1,311 lb/in	230 N/mm	1,385 lb/in
Long. Comp.	1,311 lb/in	230 N/mm	1,385 lb/in	243 N/mm
Trans. Ten.	428 lb/in	75 N/mm	452 lb/in	79 N/mm
Trans. Comp.	428 lb/in	75 N/mm	452 lb/in	79 N/mm
In-Plane Shear	202 lb/in	35 N/mm	205 lb/in	36 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.



3500 Lakewood Dr. Phenix City, AL 36867 tel. 334 291 7704 fax. 334 291 7743

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Disclaimer:

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VP makes no warranty whatsoever as to the accuracy of any such predicted physical performance, and customer acknowledges that customer is solely responsible for determining the performance and fitness for a particular use of any product produced by customer utilizing a fabric or material produced or manufactured by VP. Specifications of reinforcements may change without notice.