



E-LT 1800

Fiber Type: E-Glass
 Architecture: 0/90 Biaxial
 Dry Thickness: 0.023 in. / 0.58 mm
 Total Weight: 17.92 oz/sq.yd / 608 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 193 lb / 88 kg	Roll Length: 120 yd / 110 m	0 ° : 8.96 oz/sq.yd / 304 g/sq.m	
			45 ° : n/a	
			90 ° : 8.96 oz/sq.yd / 304 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 1800 Resin Infused		E-LT 1800 Open Mold	
	Fiber	0.12 lb/sq.ft	0.61 kg/sq.m	0.12 lb/sq.ft
Resin	0.05 lb/sq.ft	0.26 kg/sq.m	0.10 lb/sq.ft	0.50 kg/sq.m
Total	0.18 lb/sq.ft	0.87 kg/sq.m	0.23 lb/sq.ft	1.10 kg/sq.m

Physical Properties

	E-LT 1800 Resin Infused		E-LT 1800 Open Mold	
	Density	1.10 oz/cu.in	1.90 g/cc	0.98 oz/cu.in
Fiber Content	70% by Wt.	52% by Vol.	55% by Wt.	37% by Vol.
Thickness	0.018 in	0.5 mm	0.026 in	0.7 mm

Laminate Moduli

	E-LT 1800 Resin Infused		E-LT 1800 Open Mold	
	Ex	3.91 MSI	26.96 GPa	2.82 MSI
Ey	3.91 MSI	26.96 GPa	2.82 MSI	19.46 GPa
Gxy	0.66 MSI	4.53 GPa	0.47 MSI	3.24 GPa
Ex,flex.	3.71 MSI	25.61 GPa	2.68 MSI	18.49 GPa
Ey,flex.	3.71 MSI	25.61 GPa	2.68 MSI	18.49 GPa

Ultimate Stress

	E-LT 1800 Resin Infused		E-LT 1800 Open Mold	
	Long. Ten.	74.0 KSI	510.3 MPa	53.4 KSI
Long. Comp.	74.0 KSI	510.3 MPa	53.4 KSI	368.4 MPa
Trans. Ten.	74.0 KSI	510.3 MPa	53.4 KSI	368.4 MPa
Trans. Comp.	74.0 KSI	510.3 MPa	53.4 KSI	368.4 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	9.4 KSI	64.8 MPa
Long. Flex.	88.3 KSI	609.1 MPa	63.8 KSI	439.7 MPa
Trans. Flex.	88.3 KSI	609.1 MPa	63.8 KSI	439.7 MPa

In-Plane Stiffness, "EA"

	E-LT 1800 Resin Infused		E-LT 1800 Open Mold	
	(EA)x	70,247 lb/in	12,302 N/mm	72,632 lb/in
(EA)y	70,247 lb/in	12,302 N/mm	72,632 lb/in	12,719 N/mm
(GA)xy	11,809 lb/in	2,068 N/mm	12,085 lb/in	2,116 N/mm

Ultimate In-Plane Load

	E-LT 1800 Resin Infused		E-LT 1800 Open Mold	
	Long. Ten.	1,330 lb/in	233 N/mm	1,375 lb/in
Long. Comp.	1,330 lb/in	233 N/mm	1,375 lb/in	241 N/mm
Trans. Ten.	1,330 lb/in	233 N/mm	1,375 lb/in	241 N/mm
Trans. Comp.	1,330 lb/in	233 N/mm	1,375 lb/in	241 N/mm
In-Plane Shear	236 lb/in	41 N/mm	242 lb/in	42 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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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.