



E-LTM 1815

Fiber Type: E-Glass
 Architecture: 0/90 Biaxial
 Dry Thickness: 0.051 in. / 1.30 mm
 Total Weight: 31.42 oz/sq.yd / 1065 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 161 lb / 73 kg	Roll Length: 58 yd / 53 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 : 13.50 oz/sq.yd / 458 g/sq.m	

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight				
	E-LTM 1815 Resin Infused		E-LTM 1815 Open Mold	
Fiber	0.22 lb/sq.ft	1.07 kg/sq.m	0.22 lb/sq.ft	1.07 kg/sq.m
Resin	0.12 lb/sq.ft	0.57 kg/sq.m	0.28 lb/sq.ft	1.39 kg/sq.m
Total	0.33 lb/sq.ft	1.63 kg/sq.m	0.50 lb/sq.ft	2.45 kg/sq.m

Physical Properties				
	E-LTM 1815 Resin Infused		E-LTM 1815 Open Mold	
Density	1.06 oz/cu.in	1.83 g/cc	0.90 oz/cu.in	1.56 g/cc
Fiber Content	65% by Wt.	47% by Vol.	43% by Wt.	27% by Vol.
Thickness	0.035 in	0.9 mm	0.062 in	1.6 mm

Laminate Moduli

	E-LTM 1815 Resin Infused		E-LTM 1815 Open Mold	
	Ex	2.83 MSI	19.53 GPa	1.81 MSI
Ey	2.83 MSI	19.53 GPa	1.81 MSI	12.48 GPa
Gxy	0.65 MSI	4.50 GPa	0.44 MSI	3.02 GPa
Ex,flex.	2.69 MSI	18.55 GPa	1.72 MSI	11.86 GPa
Ey,flex.	2.69 MSI	18.55 GPa	1.72 MSI	11.86 GPa

Ultimate Stress

	E-LTM 1815 Resin Infused		E-LTM 1815 Open Mold	
	Long. Ten.	46.5 KSI	320.3 MPa	29.7 KSI
Long. Comp.	53.6 KSI	369.8 MPa	34.3 KSI	236.3 MPa
Trans. Ten.	46.5 KSI	320.3 MPa	29.7 KSI	204.7 MPa
Trans. Comp.	53.6 KSI	369.8 MPa	34.3 KSI	236.3 MPa
In-Plane Shear	14.9 KSI	102.6 MPa	10.0 KSI	68.8 MPa
Long. Flex.	64.0 KSI	441.4 MPa	40.9 KSI	282.0 MPa
Trans. Flex.	64.0 KSI	441.4 MPa	40.9 KSI	282.0 MPa

In-Plane Stiffness, "EA"

	E-LTM 1815 Resin Infused		E-LTM 1815 Open Mold	
	(EA)x	99,352 lb/in	17,398 N/mm	112,195 lb/in
(EA)y	99,352 lb/in	17,398 N/mm	112,195 lb/in	19,647 N/mm
(GA)xy	22,901 lb/in	4,010 N/mm	27,126 lb/in	4,750 N/mm

Ultimate In-Plane Load

	E-LTM 1815 Resin Infused		E-LTM 1815 Open Mold	
	Long. Ten.	1,629 lb/in	285 N/mm	1,840 lb/in
Long. Comp.	1,881 lb/in	329 N/mm	2,124 lb/in	372 N/mm
Trans. Ten.	1,629 lb/in	285 N/mm	1,840 lb/in	322 N/mm
Trans. Comp.	1,881 lb/in	329 N/mm	2,124 lb/in	372 N/mm
In-Plane Shear	522 lb/in	91 N/mm	618 lb/in	108 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

REV: 6/16/2015

Disclaimer:

As a service to customers, Vectorply Corporation ("VP") may provide computer-generated predictions of the physical performance of a product using a reinforcement fabric produced by VP in combination with other materials or systems.

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.