



## E-LTM 3215

Fiber Type: E-Glass  
 Architecture: 0/90 Biaxial  
 Dry Thickness: 0.059 in. / 1.50 mm  
 Total Weight: 44.86 oz/sq.yd / 1521 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 198 lb / 90 kg	Roll Length: 50 yd / 46 m	0 ° : 17.92 oz/sq.yd / 608 g/sq.m	
			45 ° : n/a	
			90 ° : 13.44 oz/sq.yd / 456 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 3215 Resin Infused		E-LTM 3215 Open Mold	
Fiber	0.31 lb/sq.ft	1.52 kg/sq.m	0.31 lb/sq.ft	1.52 kg/sq.m
Resin	0.16 lb/sq.ft	0.76 kg/sq.m	0.36 lb/sq.ft	1.76 kg/sq.m
Total	0.47 lb/sq.ft	2.28 kg/sq.m	0.67 lb/sq.ft	3.28 kg/sq.m

Physical Properties				
	E-LTM 3215 Resin Infused		E-LTM 3215 Open Mold	
Density	1.07 oz/cu.in	1.85 g/cc	0.92 oz/cu.in	1.59 g/cc
Fiber Content	67% by Wt.	49% by Vol.	46% by Wt.	29% by Vol.
Thickness	0.049 in	1.2 mm	0.081 in	2.1 mm

**Laminate Moduli**

	E-LTM 3215 Resin Infused		E-LTM 3215 Open Mold	
	Ex	3.30 MSI	22.75 GPa	2.16 MSI
Ey	2.97 MSI	20.45 GPa	1.94 MSI	13.41 GPa
Gxy	0.65 MSI	4.51 GPa	0.45 MSI	3.07 GPa
Ex,flex.	3.13 MSI	21.61 GPa	2.05 MSI	14.14 GPa
Ey,flex.	2.82 MSI	19.43 GPa	1.85 MSI	12.74 GPa

**Ultimate Stress**

	E-LTM 3215 Resin Infused		E-LTM 3215 Open Mold	
	Long. Ten.	54.1 KSI	373.1 MPa	35.4 KSI
Long. Comp.	62.5 KSI	430.7 MPa	40.9 KSI	281.8 MPa
Trans. Ten.	48.7 KSI	335.5 MPa	31.9 KSI	219.9 MPa
Trans. Comp.	56.2 KSI	387.3 MPa	36.8 KSI	253.9 MPa
In-Plane Shear	14.9 KSI	102.8 MPa	10.2 KSI	70.0 MPa
Long. Flex.	74.6 KSI	514.1 MPa	48.8 KSI	336.4 MPa
Trans. Flex.	67.0 KSI	462.2 MPa	43.9 KSI	303.0 MPa

**In-Plane Stiffness, "EA"**

	E-LTM 3215 Resin Infused		E-LTM 3215 Open Mold	
	(EA)x	160,195 lb/in	28,053 N/mm	175,478 lb/in
(EA)y	144,019 lb/in	25,220 N/mm	158,086 lb/in	27,684 N/mm
(GA)xy	31,758 lb/in	5,561 N/mm	36,189 lb/in	6,337 N/mm

**Ultimate In-Plane Load**

	E-LTM 3215 Resin Infused		E-LTM 3215 Open Mold	
	Long. Ten.	2,627 lb/in	460 N/mm	2,878 lb/in
Long. Comp.	3,033 lb/in	531 N/mm	3,322 lb/in	582 N/mm
Trans. Ten.	2,362 lb/in	414 N/mm	2,593 lb/in	454 N/mm
Trans. Comp.	2,727 lb/in	477 N/mm	2,993 lb/in	524 N/mm
In-Plane Shear	724 lb/in	127 N/mm	825 lb/in	144 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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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.