



## E-LT 5500

Fiber Type: E-Glass  
 Architecture: 0/90 Biaxial  
 Dry Thickness: 0.060 in. / 1.52 mm  
 Total Weight: 54.33 oz/sq.yd / 1842 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 269 lb / 122 kg	Roll Length: 56 yd / 51 m	0 ° : 50.97 oz/sq.yd / 1728 g/sq.m	
			45 ° : n/a	
			90 ° : 3.36 oz/sq.yd / 114 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 5500 Resin Infused		E-LT 5500 Open Mold	
Fiber	0.38 lb/sq.ft	1.84 kg/sq.m	0.38 lb/sq.ft	1.84 kg/sq.m
Resin	0.16 lb/sq.ft	0.79 kg/sq.m	0.31 lb/sq.ft	1.51 kg/sq.m
Total	0.54 lb/sq.ft	2.63 kg/sq.m	0.69 lb/sq.ft	3.35 kg/sq.m

Physical Properties				
	E-LT 5500 Resin Infused		E-LT 5500 Open Mold	
Density	1.10 oz/cu.in	1.90 g/cc	0.98 oz/cu.in	1.69 g/cc
Fiber Content	70% by Wt.	52% by Vol.	55% by Wt.	37% by Vol.
Thickness	0.054 in	1.4 mm	0.078 in	2.0 mm

**Laminate Moduli**

	E-LT 5500 Resin Infused		E-LT 5500 Open Mold	
	Ex	6.57 MSI	45.32 GPa	4.76 MSI
Ey	2.44 MSI	16.83 GPa	1.69 MSI	11.65 GPa
Gxy	0.66 MSI	4.53 GPa	0.47 MSI	3.24 GPa
Ex,flex.	6.24 MSI	43.05 GPa	4.53 MSI	31.21 GPa
Ey,flex.	2.32 MSI	15.99 GPa	1.61 MSI	11.07 GPa

**Ultimate Stress**

	E-LT 5500 Resin Infused		E-LT 5500 Open Mold	
	Long. Ten.	120.4 KSI	830.2 MPa	87.3 KSI
Long. Comp.	81.5 KSI	561.9 MPa	59.1 KSI	407.3 MPa
Trans. Ten.	46.6 KSI	321.3 MPa	32.3 KSI	222.4 MPa
Trans. Comp.	31.5 KSI	217.5 MPa	21.8 KSI	150.5 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	9.4 KSI	64.8 MPa
Long. Flex.	114.9 KSI	792.1 MPa	83.3 KSI	574.2 MPa
Trans. Flex.	44.5 KSI	306.5 MPa	30.8 KSI	212.2 MPa

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

	E-LT 5500 Resin Infused		E-LT 5500 Open Mold	
	(EA)x	357,969 lb/in	62,687 N/mm	371,716 lb/in
(EA)y	132,989 lb/in	23,289 N/mm	131,856 lb/in	23,090 N/mm
(GA)xy	35,803 lb/in	6,270 N/mm	36,638 lb/in	6,416 N/mm

**Ultimate In-Plane Load**

	E-LT 5500 Resin Infused		E-LT 5500 Open Mold	
	Long. Ten.	6,558 lb/in	1,148 N/mm	6,810 lb/in
Long. Comp.	4,439 lb/in	777 N/mm	4,609 lb/in	807 N/mm
Trans. Ten.	2,538 lb/in	444 N/mm	2,516 lb/in	441 N/mm
Trans. Comp.	1,718 lb/in	301 N/mm	1,703 lb/in	298 N/mm
In-Plane Shear	716 lb/in	125 N/mm	733 lb/in	128 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.