



E-TLX 5500

Fiber Type: E-Glass
 Architecture: 0/45/-45 Warp Triaxial
 Dry Thickness: 0.061 in. / 1.55 mm
 Total Weight: 54.58 oz/sq.yd / 1851 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 200 lb / 91 kg	Roll Length: 42 yd / 38 m	0 ° : 27.70 oz/sq.yd / 939 g/sq.m	
			45 ° : 13.44 oz/sq.yd / 456 g/sq.m	
			90 ° : n/a	
			-45 ° : 13.44 oz/sq.yd / 456 g/sq.m	
			Chopped Mat : n/a	

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight

	E-TLX 5500 Resin Infused		E-TLX 5500 Open Mold	
	Fiber	0.38 lb/sq.ft	1.85 kg/sq.m	0.38 lb/sq.ft
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	2.64 kg/sq.m	0.69 lb/sq.ft	3.36 kg/sq.m

Physical Properties

	E-TLX 5500 Resin Infused		E-TLX 5500 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	0.055 in	1.4 mm	0.078 in	2.0 mm

Laminate Moduli

	E-TLX 5500 Resin Infused		E-TLX 5500 Open Mold	
	Ex	4.06 MSI	28.02 GPa	2.94 MSI
Ey	2.14 MSI	14.77 GPa	1.53 MSI	10.55 GPa
Gxy	1.23 MSI	8.51 GPa	0.88 MSI	6.07 GPa
Ex,flex.	3.86 MSI	26.62 GPa	2.79 MSI	19.25 GPa
Ey,flex.	2.04 MSI	14.03 GPa	1.45 MSI	10.03 GPa

Ultimate Stress

	E-TLX 5500 Resin Infused		E-TLX 5500 Open Mold	
	Long. Ten.	76.9 KSI	530.4 MPa	55.6 KSI
Long. Comp.	76.9 KSI	530.4 MPa	55.6 KSI	383.6 MPa
Trans. Ten.	21.4 KSI	147.7 MPa	15.3 KSI	105.5 MPa
Trans. Comp.	21.4 KSI	147.7 MPa	15.3 KSI	105.5 MPa
In-Plane Shear	23.4 KSI	161.1 MPa	16.7 KSI	115.0 MPa
Long. Flex.	91.8 KSI	633.1 MPa	66.4 KSI	457.9 MPa
Trans. Flex.	20.4 KSI	140.3 MPa	14.5 KSI	100.3 MPa

In-Plane Stiffness, "EA"

	E-TLX 5500 Resin Infused		E-TLX 5500 Open Mold	
	(EA)x	222,325 lb/in	38,933 N/mm	230,330 lb/in
(EA)y	117,237 lb/in	20,530 N/mm	119,974 lb/in	21,010 N/mm
(GA)xy	67,527 lb/in	11,825 N/mm	69,051 lb/in	12,092 N/mm

Ultimate In-Plane Load

	E-TLX 5500 Resin Infused		E-TLX 5500 Open Mold	
	Long. Ten.	4,209 lb/in	737 N/mm	4,361 lb/in
Long. Comp.	4,209 lb/in	737 N/mm	4,361 lb/in	764 N/mm
Trans. Ten.	1,172 lb/in	205 N/mm	1,200 lb/in	210 N/mm
Trans. Comp.	1,172 lb/in	205 N/mm	1,200 lb/in	210 N/mm
In-Plane Shear	1,278 lb/in	224 N/mm	1,307 lb/in	229 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.