



E-TLX 3400

Fiber Type: E-Glass
 Architecture: 0/45/-45 Warp Triaxial
 Dry Thickness: 0.042 in. / 1.07 mm
 Total Weight: 34.30 oz/sq.yd / 1163 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 226 lb / 103 kg	Roll Length: 74 yd / 68 m	0 ° :	12.80 oz/sq.yd / 434 g/sq.m
			45 ° :	10.75 oz/sq.yd / 364 g/sq.m
			90 ° :	n/a
			-45 ° :	10.75 oz/sq.yd / 364 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 3400 Resin Infused		E-TLX 3400 Open Mold	
Fiber	0.24 lb/sq.ft	1.16 kg/sq.m	0.24 lb/sq.ft	1.16 kg/sq.m
Resin	0.10 lb/sq.ft	0.50 kg/sq.m	0.19 lb/sq.ft	0.95 kg/sq.m
Total	0.34 lb/sq.ft	1.66 kg/sq.m	0.43 lb/sq.ft	2.11 kg/sq.m

Physical Properties				
	E-TLX 3400 Resin Infused		E-TLX 3400 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	0.034 in	0.9 mm	0.049 in	1.3 mm

Laminate Moduli

	E-TLX 3400 Resin Infused		E-TLX 3400 Open Mold	
	Ex	3.61 MSI	24.88 GPa	2.60 MSI
Ey	2.23 MSI	15.39 GPa	1.59 MSI	10.97 GPa
Gxy	1.35 MSI	9.31 GPa	0.97 MSI	6.68 GPa
Ex,flex.	3.43 MSI	23.64 GPa	2.47 MSI	17.01 GPa
Ey,flex.	2.12 MSI	14.62 GPa	1.51 MSI	10.42 GPa

Ultimate Stress

	E-TLX 3400 Resin Infused		E-TLX 3400 Open Mold	
	Long. Ten.	68.3 KSI	471.0 MPa	49.2 KSI
Long. Comp.	68.3 KSI	471.0 MPa	49.2 KSI	339.0 MPa
Trans. Ten.	22.3 KSI	153.9 MPa	15.9 KSI	109.7 MPa
Trans. Comp.	22.3 KSI	153.9 MPa	15.9 KSI	109.7 MPa
In-Plane Shear	25.6 KSI	176.2 MPa	18.3 KSI	126.5 MPa
Long. Flex.	81.5 KSI	562.2 MPa	58.7 KSI	404.7 MPa
Trans. Flex.	21.2 KSI	146.2 MPa	15.1 KSI	104.2 MPa

In-Plane Stiffness, "EA"

	E-TLX 3400 Resin Infused		E-TLX 3400 Open Mold	
	(EA)x	124,078 lb/in	21,728 N/mm	127,922 lb/in
(EA)y	76,735 lb/in	13,438 N/mm	78,347 lb/in	13,720 N/mm
(GA)xy	46,426 lb/in	8,130 N/mm	47,715 lb/in	8,356 N/mm

Ultimate In-Plane Load

	E-TLX 3400 Resin Infused		E-TLX 3400 Open Mold	
	Long. Ten.	2,349 lb/in	411 N/mm	2,422 lb/in
Long. Comp.	2,349 lb/in	411 N/mm	2,422 lb/in	424 N/mm
Trans. Ten.	767 lb/in	134 N/mm	783 lb/in	137 N/mm
Trans. Comp.	767 lb/in	134 N/mm	783 lb/in	137 N/mm
In-Plane Shear	879 lb/in	154 N/mm	903 lb/in	158 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.