



E-TTX 2300

Fiber Type: E-Glass
 Architecture: 45/90/-45 Weft Triaxial
 Dry Thickness: 0.030 in. / 0.76 mm
 Total Weight: 24.06 oz/sq.yd / 816 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	226 lb / 103 kg	105 yd / 96 m	45 ° :	6.27 oz/sq.yd / 213 g/sq.m
			90 ° :	11.52 oz/sq.yd / 391 g/sq.m
			-45 ° :	6.27 oz/sq.yd / 213 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-TTX 2300 Resin Infused		E-TTX 2300 Open Mold	
Fiber	0.17 lb/sq.ft	0.82 kg/sq.m	0.17 lb/sq.ft	0.82 kg/sq.m
Resin	0.07 lb/sq.ft	0.35 kg/sq.m	0.14 lb/sq.ft	0.67 kg/sq.m
Total	0.24 lb/sq.ft	1.17 kg/sq.m	0.30 lb/sq.ft	1.48 kg/sq.m

Physical Properties				
	E-TTX 2300 Resin Infused		E-TTX 2300 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	0.024 in	0.6 mm	0.035 in	0.9 mm

Laminate Moduli

	E-TTX 2300 Resin Infused		E-TTX 2300 Open Mold	
	Ex	2.26 MSI	15.61 GPa	1.60 MSI
Ey	3.85 MSI	26.52 GPa	2.79 MSI	19.26 GPa
Gxy	1.22 MSI	8.39 GPa	0.87 MSI	6.03 GPa
Ex,flex.	2.15 MSI	14.83 GPa	1.52 MSI	10.51 GPa
Ey,flex.	3.65 MSI	25.20 GPa	2.65 MSI	18.29 GPa

Ultimate Stress

	E-TTX 2300 Resin Infused		E-TTX 2300 Open Mold	
	Long. Ten.	22.6 KSI	156.1 MPa	16.0 KSI
Long. Comp.	22.6 KSI	156.1 MPa	16.0 KSI	110.6 MPa
Trans. Ten.	72.8 KSI	502.1 MPa	52.9 KSI	364.6 MPa
Trans. Comp.	72.8 KSI	502.1 MPa	52.9 KSI	364.6 MPa
In-Plane Shear	23.0 KSI	158.8 MPa	16.6 KSI	114.1 MPa
Long. Flex.	21.5 KSI	148.3 MPa	15.2 KSI	105.1 MPa
Trans. Flex.	86.9 KSI	599.3 MPa	63.1 KSI	435.1 MPa

In-Plane Stiffness, "EA"

	E-TTX 2300 Resin Infused		E-TTX 2300 Open Mold	
	(EA)x	54,601 lb/in	9,562 N/mm	55,433 lb/in
(EA)y	92,781 lb/in	16,248 N/mm	96,492 lb/in	16,897 N/mm
(GA)xy	29,352 lb/in	5,140 N/mm	30,210 lb/in	5,290 N/mm

Ultimate In-Plane Load

	E-TTX 2300 Resin Infused		E-TTX 2300 Open Mold	
	Long. Ten.	546 lb/in	96 N/mm	554 lb/in
Long. Comp.	546 lb/in	96 N/mm	554 lb/in	97 N/mm
Trans. Ten.	1,757 lb/in	308 N/mm	1,827 lb/in	320 N/mm
Trans. Comp.	1,757 lb/in	308 N/mm	1,827 lb/in	320 N/mm
In-Plane Shear	556 lb/in	97 N/mm	572 lb/in	100 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.