



E-T 1600

Fiber Type: E-Glass
 Architecture: 90 Weft Unidirectional
 Dry Thickness: 0.031 in. / 0.79 mm
 Total Weight: 15.49 oz/sq.yd / 525 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	187 lb / 85 kg	138 yd / 126 m	45 ° :	n/a
			90 ° :	15.49 oz/sq.yd / 525 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-T 1600 Resin Infused		E-T 1600 Open Mold	
Fiber	0.11 lb/sq.ft	0.53 kg/sq.m	0.11 lb/sq.ft	0.53 kg/sq.m
Resin	0.05 lb/sq.ft	0.23 kg/sq.m	0.09 lb/sq.ft	0.43 kg/sq.m
Total	0.15 lb/sq.ft	0.75 kg/sq.m	0.20 lb/sq.ft	0.96 kg/sq.m

Physical Properties				
	E-T 1600 Resin Infused		E-T 1600 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	0.016 in	0.4 mm	0.022 in	0.6 mm

Laminate Moduli

	E-T 1600 Resin Infused		E-T 1600 Open Mold	
	Ex	2.08 MSI	14.35 GPa	1.45 MSI
Ey	5.70 MSI	39.30 GPa	4.17 MSI	28.73 GPa
Gxy	0.66 MSI	4.53 GPa	0.47 MSI	3.24 GPa
Ex,flex.	1.98 MSI	13.64 GPa	1.37 MSI	9.47 GPa
Ey,flex.	5.41 MSI	37.33 GPa	3.96 MSI	27.30 GPa

Ultimate Stress

	E-T 1600 Resin Infused		E-T 1600 Open Mold	
	Long. Ten.	20.8 KSI	143.5 MPa	14.5 KSI
Long. Comp.	20.8 KSI	143.5 MPa	14.5 KSI	99.7 MPa
Trans. Ten.	107.9 KSI	744.0 MPa	78.9 KSI	544.0 MPa
Trans. Comp.	107.9 KSI	744.0 MPa	78.9 KSI	544.0 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	9.4 KSI	64.7 MPa
Long. Flex.	19.8 KSI	136.4 MPa	13.7 KSI	94.7 MPa
Trans. Flex.	128.8 KSI	888.0 MPa	94.2 KSI	649.3 MPa

In-Plane Stiffness, "EA"

	E-T 1600 Resin Infused		E-T 1600 Open Mold	
	(EA)x	32,339 lb/in	5,663 N/mm	32,163 lb/in
(EA)y	88,534 lb/in	15,504 N/mm	92,716 lb/in	16,236 N/mm
(GA)xy	10,208 lb/in	1,788 N/mm	10,446 lb/in	1,829 N/mm

Ultimate In-Plane Load

	E-T 1600 Resin Infused		E-T 1600 Open Mold	
	Long. Ten.	323 lb/in	57 N/mm	322 lb/in
Long. Comp.	323 lb/in	57 N/mm	322 lb/in	56 N/mm
Trans. Ten.	1,676 lb/in	294 N/mm	1,755 lb/in	307 N/mm
Trans. Comp.	1,676 lb/in	294 N/mm	1,755 lb/in	307 N/mm
In-Plane Shear	204 lb/in	36 N/mm	209 lb/in	37 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.