



E-T 0900

Fiber Type: E-Glass
 Architecture: 90 Weft Unidirectional
 Dry Thickness: 0.014 in. / 0.36 mm
 Total Weight: 8.96 oz/sq.yd / 304 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	230 lb / 105 kg	278 yd / 254 m	45 ° :	n/a
			90 ° :	8.96 oz/sq.yd / 304 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 0900 Resin Infused		E-T 0900 Open Mold	
Fiber	0.06 lb/sq.ft	0.30 kg/sq.m	0.06 lb/sq.ft	0.30 kg/sq.m
Resin	0.03 lb/sq.ft	0.13 kg/sq.m	0.05 lb/sq.ft	0.25 kg/sq.m
Total	0.09 lb/sq.ft	0.43 kg/sq.m	0.11 lb/sq.ft	0.55 kg/sq.m

Physical Properties				
	E-T 0900 Resin Infused		E-T 0900 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	0.009 in	0.2 mm	0.013 in	0.3 mm

Laminate Moduli

	E-T 0900 Resin Infused		E-T 0900 Open Mold	
	Ex	2.08 MSI	14.35 GPa	1.45 MSI
Ey	5.70 MSI	39.29 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	13.63 GPa	1.37 MSI	9.47 GPa
Ey,flex.	5.41 MSI	37.32 GPa	3.96 MSI	27.29 GPa

Ultimate Stress

	E-T 0900 Resin Infused		E-T 0900 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	743.8 MPa	78.9 KSI	543.8 MPa
Trans. Comp.	107.9 KSI	743.8 MPa	78.9 KSI	543.8 MPa
In-Plane Shear	13.1 KSI	90.6 MPa	9.4 KSI	64.7 MPa
Long. Flex.	19.8 KSI	136.3 MPa	13.7 KSI	94.7 MPa
Trans. Flex.	128.8 KSI	887.8 MPa	94.1 KSI	649.1 MPa

In-Plane Stiffness, "EA"

	E-T 0900 Resin Infused		E-T 0900 Open Mold	
	(EA)x	18,707 lb/in	3,276 N/mm	18,605 lb/in
(EA)y	51,212 lb/in	8,968 N/mm	53,631 lb/in	9,392 N/mm
(GA)xy	5,905 lb/in	1,034 N/mm	6,043 lb/in	1,058 N/mm

Ultimate In-Plane Load

	E-T 0900 Resin Infused		E-T 0900 Open Mold	
	Long. Ten.	187 lb/in	33 N/mm	186 lb/in
Long. Comp.	187 lb/in	33 N/mm	186 lb/in	33 N/mm
Trans. Ten.	970 lb/in	170 N/mm	1,015 lb/in	178 N/mm
Trans. Comp.	970 lb/in	170 N/mm	1,015 lb/in	178 N/mm
In-Plane Shear	118 lb/in	21 N/mm	121 lb/in	21 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.



3500 Lakewood Dr. Phenix City, AL 36867 tel. 334 291 7704 fax. 334 291 7743

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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.