



E-TLX 1900

Fiber Type: E-Glass
 Architecture: 0/45/-45 Warp Triaxial
 Dry Thickness: 0.026 in. / 0.66 mm
 Total Weight: 19.71 oz/sq.yd / 668 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 220 lb / 100 kg	Roll Length: 126 yd / 115 m	0 ° : 8.96 oz/sq.yd / 304 g/sq.m	
			45 ° : 5.38 oz/sq.yd / 182 g/sq.m	
			90 ° : n/a	
			-45 ° : 5.38 oz/sq.yd / 182 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 1900 Resin Infused		E-TLX 1900 Open Mold	
Fiber	0.14 lb/sq.ft	0.67 kg/sq.m	0.14 lb/sq.ft	0.67 kg/sq.m
Resin	0.06 lb/sq.ft	0.29 kg/sq.m	0.11 lb/sq.ft	0.55 kg/sq.m
Total	0.20 lb/sq.ft	0.95 kg/sq.m	0.25 lb/sq.ft	1.22 kg/sq.m

Physical Properties				
	E-TLX 1900 Resin Infused		E-TLX 1900 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	0.020 in	0.5 mm	0.028 in	0.7 mm

Laminate Moduli

	E-TLX 1900 Resin Infused		E-TLX 1900 Open Mold	
	Ex	3.88 MSI	26.78 GPa	2.80 MSI
Ey	2.18 MSI	15.03 GPa	1.56 MSI	10.73 GPa
Gxy	1.28 MSI	8.82 GPa	0.92 MSI	6.31 GPa
Ex,flex.	3.69 MSI	25.44 GPa	2.66 MSI	18.37 GPa
Ey,flex.	2.07 MSI	14.28 GPa	1.48 MSI	10.19 GPa

Ultimate Stress

	E-TLX 1900 Resin Infused		E-TLX 1900 Open Mold	
	Long. Ten.	73.5 KSI	507.0 MPa	53.1 KSI
Long. Comp.	73.5 KSI	507.0 MPa	53.1 KSI	366.1 MPa
Trans. Ten.	21.8 KSI	150.3 MPa	15.6 KSI	107.3 MPa
Trans. Comp.	21.8 KSI	150.3 MPa	15.6 KSI	107.3 MPa
In-Plane Shear	24.2 KSI	167.1 MPa	17.3 KSI	119.5 MPa
Long. Flex.	87.8 KSI	605.2 MPa	63.4 KSI	436.9 MPa
Trans. Flex.	20.7 KSI	142.8 MPa	14.8 KSI	101.9 MPa

In-Plane Stiffness, "EA"

	E-TLX 1900 Resin Infused		E-TLX 1900 Open Mold	
	(EA)x	76,753 lb/in	13,441 N/mm	79,375 lb/in
(EA)y	43,075 lb/in	7,543 N/mm	44,045 lb/in	7,713 N/mm
(GA)xy	25,289 lb/in	4,429 N/mm	25,914 lb/in	4,538 N/mm

Ultimate In-Plane Load

	E-TLX 1900 Resin Infused		E-TLX 1900 Open Mold	
	Long. Ten.	1,453 lb/in	254 N/mm	1,503 lb/in
Long. Comp.	1,453 lb/in	254 N/mm	1,503 lb/in	263 N/mm
Trans. Ten.	431 lb/in	75 N/mm	440 lb/in	77 N/mm
Trans. Comp.	431 lb/in	75 N/mm	440 lb/in	77 N/mm
In-Plane Shear	479 lb/in	84 N/mm	491 lb/in	86 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.