



E-TLY 2700

Fiber Type: E-Glass
 Architecture: 0/60/-60 Warp Triaxial
 Dry Thickness: 0.038 in. / 0.97 mm
 Total Weight: 26.10 oz/sq.yd / 885 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 210 lb / 95 kg	Roll Length: 90 yd / 82 m	0 ° :	6.40 oz/sq.yd / 217 g/sq.m
			60 ° :	9.85 oz/sq.yd / 334 g/sq.m
			90 ° :	n/a
			-60 ° :	9.85 oz/sq.yd / 334 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-TLY 2700 Resin Infused		E-TLY 2700 Open Mold	
Fiber	0.18 lb/sq.ft	0.88 kg/sq.m	0.18 lb/sq.ft	0.88 kg/sq.m
Resin	0.08 lb/sq.ft	0.38 kg/sq.m	0.15 lb/sq.ft	0.72 kg/sq.m
Total	0.26 lb/sq.ft	1.26 kg/sq.m	0.33 lb/sq.ft	1.61 kg/sq.m

Physical Properties

	E-TLY 2700 Resin Infused		E-TLY 2700 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	0.026 in	0.7 mm	0.037 in	1.0 mm

Laminate Moduli

	E-TLY 2700 Resin Infused		E-TLY 2700 Open Mold	
	Ex	2.78 MSI	19.14 GPa	1.99 MSI
Ey	3.21 MSI	22.13 GPa	2.32 MSI	15.98 GPa
Gxy	1.27 MSI	8.72 GPa	0.91 MSI	6.27 GPa
Ex,flex.	2.64 MSI	18.18 GPa	1.89 MSI	13.05 GPa
Ey,flex.	3.05 MSI	21.03 GPa	2.20 MSI	15.19 GPa

Ultimate Stress

	E-TLY 2700 Resin Infused		E-TLY 2700 Open Mold	
	Long. Ten.	52.6 KSI	362.3 MPa	37.7 KSI
Long. Comp.	52.6 KSI	362.3 MPa	37.7 KSI	260.0 MPa
Trans. Ten.	32.1 KSI	221.3 MPa	23.2 KSI	159.8 MPa
Trans. Comp.	32.1 KSI	221.3 MPa	23.2 KSI	159.8 MPa
In-Plane Shear	27.7 KSI	190.7 MPa	19.9 KSI	137.0 MPa
Long. Flex.	62.7 KSI	432.5 MPa	45.0 KSI	310.4 MPa
Trans. Flex.	30.5 KSI	210.3 MPa	22.0 KSI	151.9 MPa

In-Plane Stiffness, "EA"

	E-TLY 2700 Resin Infused		E-TLY 2700 Open Mold	
	(EA)x	72,632 lb/in	12,719 N/mm	74,665 lb/in
(EA)y	83,994 lb/in	14,709 N/mm	86,891 lb/in	15,216 N/mm
(GA)xy	33,102 lb/in	5,797 N/mm	34,078 lb/in	5,968 N/mm

Ultimate In-Plane Load

	E-TLY 2700 Resin Infused		E-TLY 2700 Open Mold	
	Long. Ten.	1,375 lb/in	241 N/mm	1,414 lb/in
Long. Comp.	1,375 lb/in	241 N/mm	1,414 lb/in	248 N/mm
Trans. Ten.	840 lb/in	147 N/mm	869 lb/in	152 N/mm
Trans. Comp.	840 lb/in	147 N/mm	869 lb/in	152 N/mm
In-Plane Shear	724 lb/in	127 N/mm	745 lb/in	130 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:

As a service to customers, Vectorply Corporation ("VP") may provide computer-generated predictions of the physical performance of a product using a reinforcement fabric produced by VP in combination with other materials or systems.

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.