



E-LT 4000

Fiber Type: E-Glass
 Architecture: 0/90 Biaxial
 Dry Thickness: 0.041 in. / 1.04 mm
 Total Weight: 39.68 oz/sq.yd / 1345 g/sq.m

| Roll Specifications | | | Fiber Architecture Data | |
|--------------------------------|--------------------------------|------------------------------|------------------------------------|--|
| Roll Width: 50 in / 1270 mm | Roll Weight: 217 lb / 99 kg | Roll Length: 62 yd / 57 m | 0 ° : 17.92 oz/sq.yd / 608 g/sq.m | |
| | | | 45 ° : n/a | |
| | | | 90 ° : 21.76 oz/sq.yd / 738 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-LT 4000 Resin Infused | | E-LT 4000 Open Mold | |
| Fiber | 0.28 lb/sq.ft | 1.35 kg/sq.m | 0.28 lb/sq.ft | 1.35 kg/sq.m |
| Resin | 0.12 lb/sq.ft | 0.58 kg/sq.m | 0.23 lb/sq.ft | 1.10 kg/sq.m |
| Total | 0.39 lb/sq.ft | 1.92 kg/sq.m | 0.50 lb/sq.ft | 2.45 kg/sq.m |

| Physical Properties | | | | |
|---------------------|----------------------------|-------------|------------------------|-------------|
| | E-LT 4000 Resin Infused | | E-LT 4000 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 | 0.040 in | 1.0 mm | 0.057 in | 1.4 mm |

Laminate Moduli

| | E-LT 4000 Resin Infused | | E-LT 4000 Open Mold | |
|----------|----------------------------|-----------|------------------------|-----------|
| | Ex | 3.73 MSI | 25.75 GPa | 2.69 MSI |
| Ey | 4.09 MSI | 28.17 GPa | 2.95 MSI | 20.37 GPa |
| Gxy | 0.66 MSI | 4.53 GPa | 0.47 MSI | 3.24 GPa |
| Ex,flex. | 3.55 MSI | 24.46 GPa | 2.56 MSI | 17.62 GPa |
| Ey,flex. | 3.88 MSI | 26.76 GPa | 2.81 MSI | 19.35 GPa |

Ultimate Stress

| | E-LT 4000 Resin Infused | | E-LT 4000 Open Mold | |
|----------------|----------------------------|-----------|------------------------|-----------|
| | Long. Ten. | 70.7 KSI | 487.4 MPa | 50.9 KSI |
| Long. Comp. | 70.7 KSI | 487.4 MPa | 50.9 KSI | 351.1 MPa |
| Trans. Ten. | 77.4 KSI | 533.3 MPa | 55.9 KSI | 385.7 MPa |
| Trans. Comp. | 77.4 KSI | 533.3 MPa | 55.9 KSI | 385.7 MPa |
| In-Plane Shear | 13.1 KSI | 90.6 MPa | 9.4 KSI | 64.8 MPa |
| Long. Flex. | 84.4 KSI | 581.8 MPa | 60.8 KSI | 419.1 MPa |
| Trans. Flex. | 92.3 KSI | 636.6 MPa | 66.8 KSI | 460.4 MPa |

In-Plane Stiffness, "EA"

| | E-LT 4000 Resin Infused | | E-LT 4000 Open Mold | |
|--------|----------------------------|---------------|------------------------|---------------|
| | (EA)x | 148,543 lb/in | 26,013 N/mm | 153,274 lb/in |
| (EA)y | 162,539 lb/in | 28,464 N/mm | 168,367 lb/in | 29,484 N/mm |
| (GA)xy | 26,149 lb/in | 4,579 N/mm | 26,758 lb/in | 4,686 N/mm |

Ultimate In-Plane Load

| | E-LT 4000 Resin Infused | | E-LT 4000 Open Mold | |
|----------------|----------------------------|-------------|------------------------|-------------|
| | Long. Ten. | 2,812 lb/in | 492 N/mm | 2,902 lb/in |
| Long. Comp. | 2,812 lb/in | 492 N/mm | 2,902 lb/in | 508 N/mm |
| Trans. Ten. | 3,077 lb/in | 539 N/mm | 3,188 lb/in | 558 N/mm |
| Trans. Comp. | 3,077 lb/in | 539 N/mm | 3,188 lb/in | 558 N/mm |
| In-Plane Shear | 523 lb/in | 92 N/mm | 535 lb/in | 94 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

REV: 6/16/2015

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.