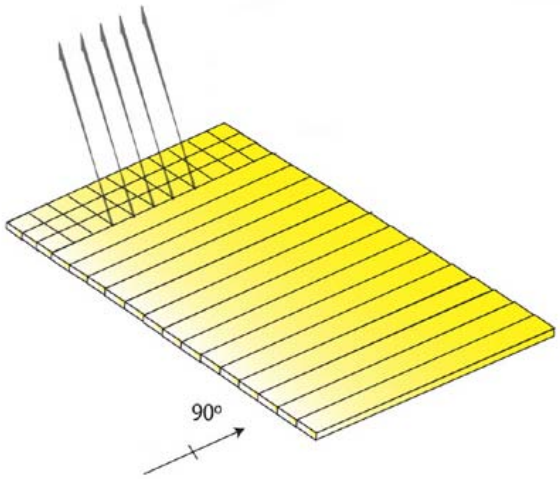
VECTORPLY®
Performance Composite Reinforcements




# 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

| Roll Width: | Roll Weight: | Roll Length: |
|---|---|---|
| 50 in / 1270 mm | 230 lb / 105 kg | 278 yd / 254 m |

## Fiber Architecture Data

| | |
|---|---|
| 0 ° : | n/a |
| 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 Modulii | E-T 0900 Resin Infused | | E-T 0900 Open Mold | |
|---|---|---|---|---|
| Ex | 2.08 MSI | 14.35 GPa | 1.45 MSI | 9.97 GPa |
| 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 | 99.7 MPa |
| 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 | 3,258 N/mm |
| (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 | 33 N/mm |
| 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.

VECTORPLY CORPORATION

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

**REV: 6/16/2015**