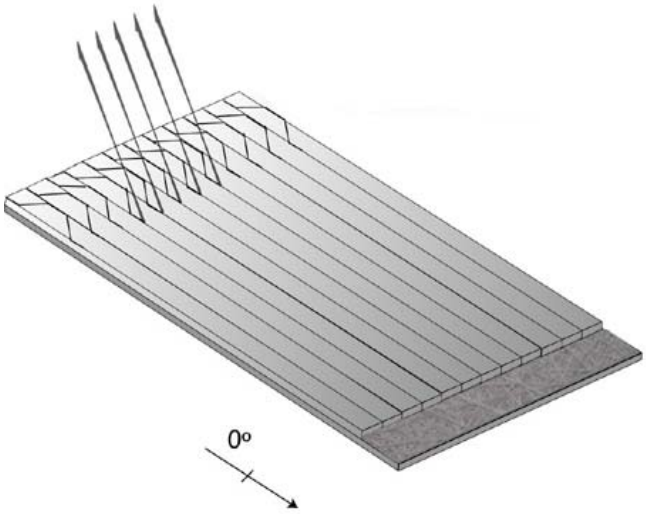
VECTORPLY®
Performance Composite Reinforcements




# E-LR 2410

Fiber Type: E-Glass
Architecture: 0 Warp Unidirectional
Dry Thickness: 0.034 in. / 0.86 mm
Total Weight: 23.94 oz/sq.yd / 812 g/sq.m

| Roll Specifications | | | Fiber Architecture Data | |
|---|---|---|---|---|
| Roll Width: | Roll Weight: | Roll Length: | 0 ° : | 23.04 oz/sq.yd / 781 g/sq.m |
| 50 in / 1270 mm | 200 lb / 91 kg | 94 yd / 86 m | 45 ° : | n/a |
| | | | 90 ° : | n/a |
| | | | -45 ° : | n/a |
| | | | Polyester Veil : | 0.90 oz/sq.yd / 31 g/sq.m |

1: Packaging: box or bag.
2: Weights do not include polyester stitching.

**Laminated Properties** 0 ° 0 °

| Laminate Weight | E-LR 2410 Resin Infused | | E-LR 2410 Open Mold | |
|---|---|---|---|---|
| Fiber | 0.17 lb/sq.ft | 0.81 kg/sq.m | 0.17 lb/sq.ft | 0.81 kg/sq.m |
| Resin | 0.07 lb/sq.ft | 0.36 kg/sq.m | 0.14 lb/sq.ft | 0.70 kg/sq.m |
| Total | 0.24 lb/sq.ft | 1.17 kg/sq.m | 0.31 lb/sq.ft | 1.51 kg/sq.m |

| Physical Properties | E-LR 2410 Resin Infused | | E-LR 2410 Open Mold | |
|---|---|---|---|---|
| Density | 1.07 oz/cu.in | 1.86 g/cc | 0.96 oz/cu.in | 1.66 g/cc |
| Fiber Content | 69% by Wt. | 52% by Vol. | 54% by Wt. | 36% by Vol. |
| Thickness | 0.025 in | 0.6 mm | 0.036 in | 0.9 mm |

| Laminate Modulii | | | | |
|---|---|---|---|---|
| | E-LR 2410 Resin Infused | | E-LR 2410 Open Mold | |
| Ex | 5.34 MSI | 36.79 GPa | 3.89 MSI | 26.80 GPa |
| Ey | 1.62 MSI | 11.17 GPa | 1.17 MSI | 8.06 GPa |
| Gxy | 0.77 MSI | 5.29 GPa | 0.53 MSI | 3.68 GPa |
| Ex,flex. | 5.07 MSI | 34.95 GPa | 3.69 MSI | 25.46 GPa |
| Ey,flex. | 1.54 MSI | 10.61 GPa | 1.11 MSI | 7.66 GPa |

| Ultimate Stress | | | | |
|---|---|---|---|---|
| | E-LR 2410 Resin Infused | | E-LR 2410 Open Mold | |
| Long. Ten. | 101.0 KSI | 696.6 MPa | 73.6 KSI | 507.3 MPa |
| Long. Comp. | 101.0 KSI | 696.6 MPa | 73.6 KSI | 507.3 MPa |
| Trans. Ten. | 32.4 KSI | 223.4 MPa | 23.4 KSI | 161.2 MPa |
| Trans. Comp. | 32.4 KSI | 223.4 MPa | 23.4 KSI | 161.2 MPa |
| In-Plane Shear | 15.3 KSI | 105.8 MPa | 10.7 KSI | 73.6 MPa |
| Long. Flex. | 101.4 KSI | 699.1 MPa | 73.8 KSI | 509.1 MPa |
| Trans. Flex. | 30.8 KSI | 212.2 MPa | 22.2 KSI | 153.2 MPa |

| In-Plane Stiffness, "EA" | | | | |
|---|---|---|---|---|
| | E-LR 2410 Resin Infused | | E-LR 2410 Open Mold | |
| (EA)x | 132,634 lb/in | 23,227 N/mm | 139,508 lb/in | 24,430 N/mm |
| (EA)y | 40,257 lb/in | 7,050 N/mm | 41,975 lb/in | 7,351 N/mm |
| (GA)xy | 19,071 lb/in | 3,340 N/mm | 19,153 lb/in | 3,354 N/mm |

| Ultimate In-Plane Load | | | | |
|---|---|---|---|---|
| | E-LR 2410 Resin Infused | | E-LR 2410 Open Mold | |
| Long. Ten. | 2,511 lb/in | 440 N/mm | 2,641 lb/in | 463 N/mm |
| Long. Comp. | 2,511 lb/in | 440 N/mm | 2,641 lb/in | 463 N/mm |
| Trans. Ten. | 805 lb/in | 141 N/mm | 840 lb/in | 147 N/mm |
| Trans. Comp. | 805 lb/in | 141 N/mm | 840 lb/in | 147 N/mm |
| In-Plane Shear | 381 lb/in | 67 N/mm | 383 lb/in | 67 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.