



## E-LTM 2415

Fiber Type: E-Glass  
 Architecture: 0/90 Biaxial  
 Dry Thickness: 0.066 in. / 1.68 mm  
 Total Weight: 37.24 oz/sq.yd / 1263 g/sq.m

| Roll Specifications            |                                |                              | Fiber Architecture Data                   |  |
|--------------------------------|--------------------------------|------------------------------|---|--|
| Roll Width:<br>50 in / 1270 mm | Roll Weight:<br>184 lb / 84 kg | Roll Length:<br>56 yd / 51 m | 0 ° : 12.22 oz/sq.yd / 414 g/sq.m         |  |
|                                |                                |                              | 45 ° : n/a                                |  |
|                                |                                |                              | 90 ° : 11.52 oz/sq.yd / 391 g/sq.m        |  |
|                                |                                |                              | -45 ° : n/a                               |  |
|                                |                                |                              | Chopped Mat : 13.50 oz/sq.yd / 458 g/sq.m |  |

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

### Laminated Properties

0 °

0 °

| Laminate Weight |                             |              |                         |              |
|-----------------|-----------------------------|--------------|-------------------------|--------------|
|                 | E-LTM 2415<br>Resin Infused |              | E-LTM 2415<br>Open Mold |              |
| Fiber           | 0.26 lb/sq.ft               | 1.26 kg/sq.m | 0.26 lb/sq.ft           | 1.26 kg/sq.m |
| Resin           | 0.13 lb/sq.ft               | 0.65 kg/sq.m | 0.32 lb/sq.ft           | 1.55 kg/sq.m |
| Total           | 0.39 lb/sq.ft               | 1.91 kg/sq.m | 0.58 lb/sq.ft           | 2.81 kg/sq.m |

### Physical Properties

|               | E-LTM 2415<br>Resin Infused |             | E-LTM 2415<br>Open Mold |             |
|---------------|-----------------------------|-------------|-------------------------|-------------|
| Density       | 1.06 oz/cu.in               | 1.84 g/cc   | 0.91 oz/cu.in           | 1.57 g/cc   |
| Fiber Content | 66% by Wt.                  | 48% by Vol. | 45% by Wt.              | 28% by Vol. |
| Thickness     | 0.041 in                    | 1.0 mm      | 0.070 in                | 1.8 mm      |

**Laminate Moduli**

|          | E-LTM 2415<br>Resin Infused |           | E-LTM 2415<br>Open Mold |           |
|----------|-----------------------------|-----------|-------------------------|-----------|
|          | Ex                          | 3.02 MSI  | 20.81 GPa               | 1.95 MSI  |
| Ey       | 2.96 MSI                    | 20.39 GPa | 1.91 MSI                | 13.18 GPa |
| Gxy      | 0.65 MSI                    | 4.51 GPa  | 0.44 MSI                | 3.04 GPa  |
| Ex,flex. | 2.87 MSI                    | 19.77 GPa | 1.85 MSI                | 12.78 GPa |
| Ey,flex. | 2.81 MSI                    | 19.37 GPa | 1.82 MSI                | 12.52 GPa |

**Ultimate Stress**

|                | E-LTM 2415<br>Resin Infused |           | E-LTM 2415<br>Open Mold |           |
|----------------|-----------------------------|-----------|-------------------------|-----------|
|                | Long. Ten.                  | 49.5 KSI  | 341.3 MPa               | 32.0 KSI  |
| Long. Comp.    | 57.1 KSI                    | 394.0 MPa | 36.9 KSI                | 254.6 MPa |
| Trans. Ten.    | 48.5 KSI                    | 334.3 MPa | 31.4 KSI                | 216.2 MPa |
| Trans. Comp.   | 56.0 KSI                    | 385.9 MPa | 36.2 KSI                | 249.6 MPa |
| In-Plane Shear | 14.9 KSI                    | 102.7 MPa | 10.1 KSI                | 69.4 MPa  |
| Long. Flex.    | 68.2 KSI                    | 470.3 MPa | 44.1 KSI                | 303.9 MPa |
| Trans. Flex.   | 66.8 KSI                    | 460.7 MPa | 43.2 KSI                | 297.9 MPa |

**In-Plane Stiffness, "EA"**

|        | E-LTM 2415<br>Resin Infused |               | E-LTM 2415<br>Open Mold |               |
|--------|-----------------------------|---------------|-------------------------|---------------|
|        | (EA)x                       | 123,471 lb/in | 21,622 N/mm             | 137,206 lb/in |
| (EA)y  | 120,949 lb/in               | 21,180 N/mm   | 134,496 lb/in           | 23,553 N/mm   |
| (GA)xy | 26,737 lb/in                | 4,682 N/mm    | 31,050 lb/in            | 5,437 N/mm    |

**Ultimate In-Plane Load**

|                | E-LTM 2415<br>Resin Infused |             | E-LTM 2415<br>Open Mold |             |
|----------------|-----------------------------|-------------|-------------------------|-------------|
|                | Long. Ten.                  | 2,025 lb/in | 355 N/mm                | 2,250 lb/in |
| Long. Comp.    | 2,338 lb/in                 | 409 N/mm    | 2,598 lb/in             | 455 N/mm    |
| Trans. Ten.    | 1,984 lb/in                 | 347 N/mm    | 2,206 lb/in             | 386 N/mm    |
| Trans. Comp.   | 2,290 lb/in                 | 401 N/mm    | 2,546 lb/in             | 446 N/mm    |
| In-Plane Shear | 610 lb/in                   | 107 N/mm    | 708 lb/in               | 124 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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