



E-TLX 2200

Fiber Type: E-Glass
 Architecture: 0/45/-45 Warp Triaxial
 Dry Thickness: 0.031 in. / 0.79 mm
 Total Weight: 23.55 oz/sq.yd / 799 g/sq.m

| Roll Specifications | | | Fiber Architecture Data | |
|--------------------------------|---------------------------------|-------------------------------|------------------------------------|--|
| Roll Width: 50 in / 1270 mm | Roll Weight: 220 lb / 100 kg | Roll Length: 106 yd / 97 m | 0 ° : 12.80 oz/sq.yd / 434 g/sq.m | |
| | | | 45 ° : 5.38 oz/sq.yd / 182 g/sq.m | |
| | | | 90 ° : n/a | |
| | | | -45 ° : 5.38 oz/sq.yd / 182 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-TLX 2200 Resin Infused | | E-TLX 2200 Open Mold | |
| Fiber | 0.16 lb/sq.ft | 0.80 kg/sq.m | 0.16 lb/sq.ft | 0.80 kg/sq.m |
| Resin | 0.07 lb/sq.ft | 0.34 kg/sq.m | 0.13 lb/sq.ft | 0.65 kg/sq.m |
| Total | 0.23 lb/sq.ft | 1.14 kg/sq.m | 0.30 lb/sq.ft | 1.45 kg/sq.m |

| Physical Properties | | | | |
|---------------------|-----------------------------|-------------|-------------------------|-------------|
| | E-TLX 2200 Resin Infused | | E-TLX 2200 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 | 0.024 in | 0.6 mm | 0.034 in | 0.9 mm |

Laminate Moduli

| | E-TLX 2200 Resin Infused | | E-TLX 2200 Open Mold | |
|----------|-----------------------------|-----------|-------------------------|-----------|
| | Ex | 4.18 MSI | 28.85 GPa | 3.03 MSI |
| Ey | 2.12 MSI | 14.59 GPa | 1.51 MSI | 10.43 GPa |
| Gxy | 1.20 MSI | 8.29 GPa | 0.86 MSI | 5.91 GPa |
| Ex,flex. | 3.98 MSI | 27.41 GPa | 2.88 MSI | 19.85 GPa |
| Ey,flex. | 2.01 MSI | 13.86 GPa | 1.44 MSI | 9.91 GPa |

Ultimate Stress

| | E-TLX 2200 Resin Infused | | E-TLX 2200 Open Mold | |
|----------------|-----------------------------|-----------|-------------------------|-----------|
| | Long. Ten. | 79.2 KSI | 546.2 MPa | 57.4 KSI |
| Long. Comp. | 79.2 KSI | 546.2 MPa | 57.4 KSI | 395.5 MPa |
| Trans. Ten. | 21.2 KSI | 145.9 MPa | 15.1 KSI | 104.3 MPa |
| Trans. Comp. | 21.2 KSI | 145.9 MPa | 15.1 KSI | 104.3 MPa |
| In-Plane Shear | 22.8 KSI | 157.0 MPa | 16.2 KSI | 111.9 MPa |
| Long. Flex. | 94.6 KSI | 652.0 MPa | 68.5 KSI | 472.1 MPa |
| Trans. Flex. | 20.1 KSI | 138.6 MPa | 14.4 KSI | 99.1 MPa |

In-Plane Stiffness, "EA"

| | E-TLX 2200 Resin Infused | | E-TLX 2200 Open Mold | |
|--------|-----------------------------|--------------|-------------------------|---------------|
| | (EA)x | 98,796 lb/in | 17,301 N/mm | 102,467 lb/in |
| (EA)y | 49,950 lb/in | 8,747 N/mm | 51,141 lb/in | 8,956 N/mm |
| (GA)xy | 28,402 lb/in | 4,974 N/mm | 28,999 lb/in | 5,078 N/mm |

Ultimate In-Plane Load

| | E-TLX 2200 Resin Infused | | E-TLX 2200 Open Mold | |
|----------------|-----------------------------|-------------|-------------------------|-------------|
| | Long. Ten. | 1,870 lb/in | 328 N/mm | 1,940 lb/in |
| Long. Comp. | 1,870 lb/in | 328 N/mm | 1,940 lb/in | 340 N/mm |
| Trans. Ten. | 500 lb/in | 87 N/mm | 511 lb/in | 90 N/mm |
| Trans. Comp. | 500 lb/in | 87 N/mm | 511 lb/in | 90 N/mm |
| In-Plane Shear | 538 lb/in | 94 N/mm | 549 lb/in | 96 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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