



E-LT 1200-P

Fiber Type: E-Glass
 Architecture: 0/90 Biaxial
 Dry Thickness: 0.017 in. / 0.43 mm
 Total Weight: 11.94 oz/sq.yd / 405 g/sq.m

| Roll Specifications | | | Fiber Architecture Data | |
|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|--|
| Roll Width: 50 in / 1270 mm | Roll Weight: 204 lb / 93 kg | Roll Length: 186 yd / 170 m | 0 ° : 5.97 oz/sq.yd / 202 g/sq.m | |
| | | | 45 ° : n/a | |
| | | | 90 ° : 5.97 oz/sq.yd / 202 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 1200-P Resin Infused | | E-LT 1200-P Open Mold | |
| Fiber | 0.08 lb/sq.ft | 0.40 kg/sq.m | 0.08 lb/sq.ft | 0.40 kg/sq.m |
| Resin | 0.04 lb/sq.ft | 0.17 kg/sq.m | 0.07 lb/sq.ft | 0.33 kg/sq.m |
| Total | 0.12 lb/sq.ft | 0.58 kg/sq.m | 0.15 lb/sq.ft | 0.74 kg/sq.m |

| Physical Properties | | | | |
|---------------------|------------------------------|-------------|--------------------------|-------------|
| | E-LT 1200-P Resin Infused | | E-LT 1200-P 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 | 0.012 in | 0.3 mm | 0.017 in | 0.4 mm |

Laminate Moduli

| | E-LT 1200-P Resin Infused | | E-LT 1200-P Open Mold | |
|----------|------------------------------|-----------|--------------------------|-----------|
| | Ex | 3.91 MSI | 26.95 GPa | 2.82 MSI |
| Ey | 3.91 MSI | 26.95 GPa | 2.82 MSI | 19.46 GPa |
| Gxy | 0.66 MSI | 4.53 GPa | 0.47 MSI | 3.24 GPa |
| Ex,flex. | 3.71 MSI | 25.60 GPa | 2.68 MSI | 18.48 GPa |
| Ey,flex. | 3.71 MSI | 25.60 GPa | 2.68 MSI | 18.48 GPa |

Ultimate Stress

| | E-LT 1200-P Resin Infused | | E-LT 1200-P Open Mold | |
|----------------|------------------------------|-----------|--------------------------|-----------|
| | Long. Ten. | 74.0 KSI | 510.2 MPa | 53.4 KSI |
| Long. Comp. | 74.0 KSI | 510.2 MPa | 53.4 KSI | 368.4 MPa |
| Trans. Ten. | 74.0 KSI | 510.2 MPa | 53.4 KSI | 368.4 MPa |
| Trans. Comp. | 74.0 KSI | 510.2 MPa | 53.4 KSI | 368.4 MPa |
| In-Plane Shear | 13.1 KSI | 90.6 MPa | 9.4 KSI | 64.7 MPa |
| Long. Flex. | 88.3 KSI | 609.0 MPa | 63.8 KSI | 439.7 MPa |
| Trans. Flex. | 88.3 KSI | 609.0 MPa | 63.8 KSI | 439.7 MPa |

In-Plane Stiffness, "EA"

| | E-LT 1200-P Resin Infused | | E-LT 1200-P Open Mold | |
|--------|------------------------------|--------------|--------------------------|--------------|
| | (EA)x | 46,806 lb/in | 8,197 N/mm | 48,395 lb/in |
| (EA)y | 46,806 lb/in | 8,197 N/mm | 48,395 lb/in | 8,475 N/mm |
| (GA)xy | 7,868 lb/in | 1,378 N/mm | 8,052 lb/in | 1,410 N/mm |

Ultimate In-Plane Load

| | E-LT 1200-P Resin Infused | | E-LT 1200-P Open Mold | |
|----------------|------------------------------|-----------|--------------------------|-----------|
| | Long. Ten. | 886 lb/in | 155 N/mm | 916 lb/in |
| Long. Comp. | 886 lb/in | 155 N/mm | 916 lb/in | 160 N/mm |
| Trans. Ten. | 886 lb/in | 155 N/mm | 916 lb/in | 160 N/mm |
| Trans. Comp. | 886 lb/in | 155 N/mm | 916 lb/in | 160 N/mm |
| In-Plane Shear | 157 lb/in | 28 N/mm | 161 lb/in | 28 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.