

Glastic T-160 Fiberglass-Reinforced Polyester Laminate

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS

Material Notes:

Grade T-160 is a new, high-strength, heat-resistant laminate. This highly creep-resistant material is excellent for applications where electrically insulating materials are subject to physical loading and moderately high temperature. NEMA grade GPO-1. Information provided by Glastic Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-T-160-Fiberglass-Reinforced-Polyester-Laminate.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|----------------------|
| Specific Gravity | 1.90 g/cc | 1.90 g/cc | ASTM D-792 |
| Water Absorption | 0.30 % | 0.30 % | % by wt.; ASTM D-570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------|----------------------|------------|
| Tensile Strength, Yield | 96.5 MPa | 14000 psi | ASTM D-638 |
| Flexural Strength | 200 MPa | 29000 psi | ASTM D-790 |
| | 172 MPa | 25000 psi | ASTM D-790 |
| | @Temperature 130 Â°C | @Temperature 266 Â°F | |
| Compressive Strength | 386 MPa | 56000 psi | ASTM D-695 |
| Adhesive Bond Strength | 12.3 MPa | 1790 psi | ASTM D-229 |
| Izod Impact, Notched | 6.41 J/cm | 12.0 ft-lb/in | ASTM D-256 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|----------------------------------|
| Dielectric Strength | 16.2 kV/mm | 411 kV/in | Perpendicular in Oil; ASTM D-149 |
| | 19.6 kV/mm | 498 kV/in | Perpendicular in Air; ASTM D-149 |
| Arc Resistance | 140 sec | 140 sec | ASTM D-495 |

| Descriptive Properties | Value | Comments |
|---------------------------------|-------|-------------------|
| Electric Strength kV, ASTM D149 | 15 | Parallel 48/50 |
| | 40 | Parallel as rec`d |

Descriptive Properties

Value

Comments

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