

Glastic Laminates/Shapes Polyester, Channels and Structural Shapes (GPO3)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

Data provided by Glastic Corporation.NEMA GPO-3. Average data - may vary with the size and shape of the electrical insulating structural product.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-LaminatesShapes-Polyester-Channels-and-Structural-Shapes-GPO3.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------|
| Density | 1.80 g/cc | 0.0650 lb/in ³ | ASTM D792 |
| Water Absorption | 0.30 % | 0.30 % | ASTM D570 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|---------------|---------------------|
| Hardness, Barcol | 50 | 50 | ASTM D2583 |
| Tensile Strength, Ultimate | 103 MPa | 14900 psi | ASTM D638 |
| Tensile Modulus | 12.0 GPa | 1740 ksi | ASTM D638 |
| Flexural Strength | 172 MPa | 24900 psi | ASTM D790 |
| Flexural Modulus | 8.00 GPa | 1160 ksi | ASTM D790 |
| Compressive Strength | 140 MPa | 20300 psi | Edgewise; ASTM D695 |
| | 290 MPa | 42100 psi | Flatwise; ASTM D695 |
| Shear Strength | 100 MPa | 14500 psi | ASTM D732 |
| Izod Impact, Notched | 5.10 J/cm | 9.55 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------|
| CTE, linear | 20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$ | 11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$ | ASTM D696 |
| Thermal Conductivity | 0.270 W/m-K | 1.87 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$ | ASTM C177 |
| UL RTI, Electrical | 130 $\text{Å}^\circ\text{C}$ | 266 $\text{Å}^\circ\text{F}$ | UL 746B |
| UL RTI, Mechanical with Impact | 160 $\text{Å}^\circ\text{C}$ | 320 $\text{Å}^\circ\text{F}$ | UL 746B |
| Flammability, UL94 | V-0 | V-0 | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|-------------------------------------------------|
| Dielectric Strength | 8.00 kV/mm | 203 kV/in | Perpendicular, Short-term, in air; ASTM D149 |
| Arc Resistance | 185 sec | 185 sec | ASTM D495 |

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