

Glastic SG-200 Corner Angles

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

Material Notes:

Corner angles used for coil winding. Information provided by Glastic Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-SG-200-Corner-Angles.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|----------------------|
| Specific Gravity | 1.85 g/cc | 1.85 g/cc | ASTM D-792 |
| Water Absorption | 0.15 % | 0.15 % | % by wt.; ASTM D-570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|------------------------|
| Tensile Strength, Yield | 483 MPa | 70000 psi | ASTM D-638 |
| Tensile Modulus | 20.7 GPa | 3000 ksi | ASTM D-638 |
| Flexural Strength | 552 MPa | 80000 psi | ASTM D-790 |
| Flexural Modulus | 26.9 GPa | 3900 ksi | ASTM D-790 |
| Compressive Strength | 96.5 MPa | 14000 psi | Transverse; ASTM D-695 |
| | 345 MPa | 50000 psi | Axial; ASTM D-695 |
| Shear Strength | 20.7 MPa | 3000 psi | In plane; ASTM D-3914 |
| Izod Impact, Notched | 21.4 J/cm | 40.0 ft-lb/in | ASTM D-256 |

| Thermal Properties | Metric | English | Comments |
|----------------------|---|---|------------|
| CTE, linear | 7.00 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$ | 3.89 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$ | ASTM D-696 |
| Thermal Conductivity | 0.290 W/m-K | 2.01 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$ | ASTM C-177 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------------------|-------------------------|------------|
| Insulation Resistance | 6.40e+15 ohm | 6.40e+15 ohm | ASTM D-257 |
| Dielectric Constant | 5.0 @Frequency 60 Hz | 5.0 @Frequency 60 Hz | ASTM D-150 |

| Dielectric Strength Electrical Properties | 2.80 kV/mm Metric | 71.1 kV/in English | 1" Axial in Oil; ASTM D-149 Comments |
|--|----------------------|-----------------------|---|
| Arc Resistance | 150 sec | 150 sec | ASTM D-495 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Standard Color | Tan | |

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