

Hippe SI GC 201 Woven Glass Cloth Reinforced Silicone Resin - Sheet

Category : Polymer , Thermoset , Silicone , Silicone, Molded, Glass Fiber Filled

Material Notes:

Used in electrical and electronic applications. Extremely good electrical properties under dry conditions; good properties under humid conditions. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-SI-GC-201-Woven-Glass-Cloth-Reinforced-Silicone-Resin-Sheet.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|------------------|----------------|
| Specific Gravity | 1.60 - 1.90 g/cc | 1.60 - 1.90 g/cc | IEC 1212-2 8.1 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---------------------------|-------------------------------|--|
| Tensile Strength | >= 70.0 MPa | >= 10200 psi | IEC 1212-2 5.7 |
| Flexural Strength | >= 90.0 MPa | >= 13100 psi | Perpendicular to laminations; IEC 1212-2 5.1 |
| Flexural Modulus | >= 13.0 GPa | >= 1890 ksi | IEC 1212-2 5.2 |
| Compressive Strength | >= 160 MPa | >= 23200 psi | Perpendicular to laminations; IEC 1212-2 5.3 |
| Shear Strength | >= 20.0 MPa | >= 2900 psi | Parallel to laminations; IEC 1212-2 5.6 |
| Izod Impact, Unnotched (ISO) | >= 21.0 kJ/m ² | >= 9.99 ft-lb/in ² | Parallel to laminations; IEC 1212-2 5.5.3 |
| Charpy Impact Unnotched | >= 2.00 J/cm ² | >= 9.52 ft-lb/in ² | Parallel to laminations; IEC 1212-2 5.5.2 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------------|
| Flammability, UL94 | V-0 | V-0 | IEC 1212-2 7.2 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------|---------------------------|--|
| Insulation Resistance | >= 1.00e+10 ohm | >= 1.00e+10 ohm | After immersion in water; IEC 1212-2 6.3 |
| Dielectric Constant | <= 4.5 | <= 4.5 | IEC 1212-2 6.2 |
| | @Frequency 48.0 - 62.0 Hz | @Frequency 48.0 - 62.0 Hz | |
| | <= 4.5 | <= 4.5 | IEC 1212-2 6.2 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | >= 30000 V | >= 30000 V | |

| Dielectric Breakdown Electrical Properties | Metric @ Temperature 90.0 °C | English @ Temperature 194 °F | Comments In oil, parallel to laminations; IEC 1212-2 6.2 |
|---|--|--|--|
| Dissipation Factor | <= 0.020 @Frequency 48.0 - 62.0 Hz | <= 0.020 @Frequency 48.0 - 62.0 Hz | IEC 1212-2 6.2 |
| | <= 0.020 @Frequency 1.00e+6 Hz | <= 0.020 @Frequency 1.00e+6 Hz | IEC 1212-2 6.2 |
| Comparative Tracking Index | >= 450 V | >= 450 V | IEC 1212-2 6.4 |

| Descriptive Properties | Value | Comments |
|------------------------|----------|--|
| Thermal Endurance | 180 T.I. | IEC 1212-2 7.1 |
| Water Absorption | < 27 mg | IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm |

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