

Hippe SI GC 202 Woven Glass Cloth Reinforced Silicone Resin - Sheet

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

Material Notes:

Used in mechanical and electrical applications at elevated temperature. Good heat resistance. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-SI-GC-202-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	>= 90.0 MPa	>= 13100 psi	IEC 1212-2 5.7
Flexural Strength	>= 120 MPa	>= 17400 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)	>= 26.0 kJ/m ²	>= 12.4 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	>= 2.50 J/cm ²	>= 11.9 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+9 ohm	>= 1.00e+9 ohm	After immersion in water; IEC 1212-2 6.3
Dielectric Constant	<= 6.0	<= 6.0	IEC 1212-2 6.2
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
Dielectric Breakdown	<= 6.0	<= 6.0	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Breakdown	>= 25000 V	>= 25000 V	In oil, parallel to laminations; IEC 1212-2 6.2
	@Temperature 90.0 °C	@Temperature 194 °F	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	IEC 1212-2 6.2
	<= 0.070	<= 0.070	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@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	< 75 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China