

Hippe SI GC 21 Woven Glass Cloth Reinforced Silicone Resin - Round, Rolled Tube

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

Material Notes:

Good mechanical, electrical and electronic applications when exposed to high relative humidity. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-SI-GC-21-Woven-Glass-Cloth-Reinforced-Silicone-Resin-Round-Rolled-Tube.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 - 1.80 g/cc	1.60 - 1.80 g/cc	IEC 1212-2 7.2

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 100 MPa @Diameter >=100 mm	>= 14500 psi @Diameter >=3.94 in	Perpendicular to laminations; IEC 1212-2 4.1
Compressive Strength	>= 40.0 MPa	>= 5800 psi	Axial; IEC 1212-2 4.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+8 ohm @Diameter 8.00 - 10.0 mm	>= 1.00e+8 ohm @Diameter 0.315 - 0.394 in	After immersion in water; IEC 1212-2 5.2
Dielectric Constant	<= 5.0 @Frequency 1.00e+6 Hz	<= 5.0 @Frequency 1.00e+6 Hz	IEC 1212-2 5.3
Dielectric Breakdown	>= 35000 V @Temperature 90.0 °C, Time 20.0 sec	>= 35000 V @Temperature 194 °F, Time 0.00556 hour	Step -by-step test, In oil, parallel to laminations; IEC 1212-2 5.1
	>= 35000 V @Temperature 90.0 °C, Time 60.0 sec	>= 35000 V @Temperature 194 °F, Time 0.0167 hour	Proof test, In oil, parallel to laminations; IEC 1212-2 5.1
Dissipation Factor	<= 0.010 @Frequency 1.00e+6 Hz	<= 0.010 @Frequency 1.00e+6 Hz	IEC 1212-2 5.3
	<= 0.050 @Frequency 48.0 - 62.0 Hz	<= 0.050 @Frequency 48.0 - 62.0 Hz	IEC 1212-2 5.3

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
	Pa	4.3, Internal diameter <100 mm
Thermal Endurance	180 T.I.	IEC 1212-2 7.1
Water Absorption	< 1 mg/cm²	IEC 1212-2 7.1

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