

Hippe EP GC 21 Woven Glass Cloth Reinforced Epoxy Resin - Round, Rolled Tube

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler

Material Notes:

Used in mechanical, electrical and electronic applications. Extremely high mechanical strength at moderate temperatures. Very good stability of electrical properties when exposed to high relative humidity. Information provided by Hippe.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.95 g/cc	1.75 - 1.95 g/cc	IEC 1212-2 7.2

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 300 MPa @Diameter >=100 mm	>= 43500 psi @Diameter >=3.94 in	Perpendicular to laminations; IEC 1212-2 4.1
Compressive Strength	>= 175 MPa	>= 25400 psi	Axial; IEC 1212-2 4.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+9 ohm @Diameter 8.00 - 10.0 mm	>= 1.00e+9 ohm @Diameter 0.315 - 0.394 in	After immersion in water; IEC 1212-2 5.2
Dielectric Constant	<= 5.2 @Frequency 1.00e+6 Hz	<= 5.2 @Frequency 1.00e+6 Hz	IEC 1212-2 5.3
Dielectric Breakdown	>= 40000 V @Temperature 90.0 °C, Time 20.0 sec	>= 40000 V @Temperature 194 °F, Time 0.00556 hour	Step -by-step test, In oil, parallel to laminations; IEC 1212-2 5.1
	>= 40000 V @Temperature 90.0 °C, Time 60.0 sec	>= 40000 V @Temperature 194 °F, Time 0.0167 hour	Proof test, In oil, parallel to laminations; IEC 1212-2 5.1
Dissipation Factor	<= 0.040 @Frequency 1.00e+6 Hz	<= 0.040 @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
Cohesion between layers	> 200 MPa	IEC 1212-2 4.3, Internal diameter <100 mm
Thermal Endurance	130 T.I.	IEC 1212-2 7.1
Water Absorption	< 1.5 mg/cm ²	IEC 1212-2 7.1

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