

Hippe MF GC 21 Woven Glass Cloth Reinforced Melamine Resin - Round, Rolled Tube

Category : Polymer , Thermoset , Melamine , Melamine Formaldehyde, Molded, Glass Fiber Filler

Material Notes:

Used in mechanical and electrical applications. High mechanical strength. Good arc and tracking resistance. Information provided by Hippe.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.90 g/cc	1.70 - 1.90 g/cc	IEC 1212-2 7.2

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 120 MPa @Diameter >=100 mm	>= 17400 psi @Diameter >=3.94 in	Perpendicular to laminations; IEC 1212-2 4.1
Compressive Strength	>= 80.0 MPa	>= 11600 psi	Axial; IEC 1212-2 4.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 100000 ohm @Diameter 8.00 - 10.0 mm	>= 100000 ohm @Diameter 0.315 - 0.394 in	After immersion in water; IEC 1212-2 5.2
Dielectric Constant	<= 8.0 @Frequency 1.00e+6 Hz	<= 8.0 @Frequency 1.00e+6 Hz	IEC 1212-2 5.3
Dielectric Breakdown	>= 10000 V @Temperature 90.0 °C, Time 20.0 sec	>= 10000 V @Temperature 194 °F, Time 0.00556 hour	Step-by-step test, In oil, parallel to laminations; IEC 1212-2 5.1
	>= 10000 V @Temperature 90.0 °C, Time 60.0 sec	>= 10000 V @Temperature 194 °F, Time 0.0167 hour	Proof test, In oil, parallel to laminations; IEC 1212-2 5.1
Dissipation Factor	<= 0.020 @Frequency 1.00e+6 Hz	<= 0.020 @Frequency 1.00e+6 Hz	IEC 1212-2 5.3

Descriptive Properties	Value	Comments
Cohesion between layers	> 150 MPa	IEC 1212-2 4.3, Internal diameter <100 mm

Thermal Endurance Descriptive Properties	130 T.1 Value	IEC 1212-2 7.1 Comments
Water Absorption	< 5 mg/cm ²	IEC 1212-2 7.1

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