

Hippe EP CC 31 Woven Cotton Cloth Reinforced Epoxy Resin - Round, Molded Tube and Rod

Category : Polymer , Thermoset , Epoxy

Material Notes:

Used in mechanical, electrical and electronic applications. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-EP-CC-31-Woven-Cotton-Cloth-Reinforced-Epoxy-Resin-Round-Molded-Tube-and-Rod.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 - 1.40 g/cc	1.20 - 1.40 g/cc	IEC 1212-2 7.2

Mechanical Properties	Metric	English	Comments
Compressive Strength	>= 125 MPa	>= 18100 psi	Axial; IEC 1212-2 4.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 7.50e+7 ohm	>= 7.50e+7 ohm	After immersion in water; IEC 1212-2 5.2
	@Diameter 8.00 - 10.0 mm	@Diameter 0.315 - 0.394 in	
Dielectric Constant	<= 6.0	<= 6.0	IEC 1212-2 5.3
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
Dielectric Breakdown	<= 6.0	<= 6.0	IEC 1212-2 5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Breakdown	>= 40000 V	>= 40000 V	Step -by-step test, In oil, parallel to laminations; IEC 1212-2 5.1
	@Temperature 90.0 °C, Time 20.0 sec	@Temperature 194 °F, Time 0.00556 hour	
Dielectric Breakdown	>= 40000 V	>= 40000 V	Proof test, In oil, parallel to laminations; IEC 1212-2 5.1
	@Temperature 90.0 °C, Time 60.0 sec	@Temperature 194 °F, Time 0.0167 hour	
Dissipation Factor	<= 0.050	<= 0.050	IEC 1212-2 5.3
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
Dissipation Factor	<= 0.050	<= 0.050	IEC 1212-2 5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Cohesion between layers	> 100 MPa	IEC 1212-2 4.3, Internal diameter <100 mm
Thermal Endurance	130 T.I.	IEC 1212-2 7.1
Water Absorption	< 3 mg/cm ²	IEC 1212-2 7.1

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