

Hippe PF CC 41 Woven Cotton Cloth Reinforced Phenolic Resin - Round, Molded Tube and Rod

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Fabric Filled

Material Notes:

Used in mechanical and electrical applications. Fine weave (more than 30 threads per cm). Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-CC-41-Woven-Cotton-Cloth-Reinforced-Phenolic-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
Flexural Strength	>= 125 MPa	>= 18100 psi	Perpendicular to laminations; IEC 1212-2 4.1
	@Diameter >=100 mm	@Diameter >=3.94 in	
Compressive Strength	>= 90.0 MPa	>= 13100 psi	Axial; IEC 1212-2 4.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 5.00e+6 ohm	>= 5.00e+6 ohm	After immersion in water; IEC 1212-2 5.2
	@Diameter 8.00 - 10.0 mm	@Diameter 0.315 - 0.394 in	
Dielectric Breakdown	>= 5000 V	>= 5000 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	
	>= 5000 V	>= 5000 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	

Descriptive Properties	Value	Comments
Thermal Endurance	120 T.I.	IEC 1212-2 7.1
Water Absorption	< 5 mg/cm²	IEC 1212-2 7.1

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