

Hippe PF CC 31 Woven Cotton Cloth Reinforced Phenolic Resin - Round, Molded Tube and Rod

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

Material Notes:

Used in mechanical, electrical and electronic applications. Fine weave (>30 threads per cm). Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-CC-31-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	>= 80.0 MPa @Diameter >=100 mm	>= 11600 psi @Diameter >=3.94 in	Perpendicular to laminations; IEC 1212-2 4.1
Compressive Strength	>= 100 MPa	>= 14500 psi	Axial; IEC 1212-2 4.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+7 ohm @Diameter 8.00 - 10.0 mm	>= 1.00e+7 ohm @Diameter 0.315 - 0.394 in	After immersion in water; IEC 1212-2 5.2
Dielectric Breakdown	>= 5000 V @Temperature 90.0 °C, Time 20.0 sec	>= 5000 V @Temperature 194 °F, Time 0.00556 hour	Step-by-step test, In oil, parallel to laminations; IEC 1212-2 5.1
	>= 5000 V @Temperature 90.0 °C, Time 60.0 sec	>= 5000 V @Temperature 194 °F, Time 0.0167 hour	Proof test, In oil, parallel to laminations; IEC 1212-2 5.1

Descriptive Properties	Value	Comments
Cohesion between layers	> 90 MPa	IEC 1212-2 4.3, Internal diameter <100 mm
Thermal Endurance	120 T.I.	IEC 1212-2 7.1
Water Absorption	< 5 mg/cm²	IEC 1212-2 7.1

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