

Hippe PF CP 24 Cellulose Paper Reinforced Phenolic Resin - Round, Rolled Tube

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

Material Notes:

Used in electrical and mechanical applications. Very good electrical properties when exposed to high relative humidity. Much higher mechanical strength and insulation resistance than type PF CP 21. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-CP-24-Cellulose-Paper-Reinforced-Phenolic-Resin-Round-Rolled-Tube.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 - 1.20 g/cc	1.10 - 1.20 g/cc	IEC 1212-2 7.2

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 130 MPa @Diameter >=100 mm	>= 18900 psi @Diameter >=3.94 in	Perpendicular to laminations; IEC 1212-2 4.1
Compressive Strength	>= 120 MPa	>= 17400 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	>= 30000 V @Temperature 90.0 °C, Time 20.0 sec	>= 30000 V @Temperature 194 °F, Time 0.00556 hour	Step -by-step test, In oil, parallel to laminations; IEC 1212-2 5.1
	>= 30000 V @Temperature 90.0 °C, Time 60.0 sec	>= 30000 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	> 70 MPa	IEC 1212-2 4.3, Internal diameter <100 mm
Thermal Endurance	120 T.I.	IEC 1212-2 7.1
Water Absorption	< 5 mg/cm ²	IEC 1212-2 7.1

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