

Hippe PF CP 202 Cellulose Paper Reinforced Phenolic Resin - Sheet

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

Material Notes:

High voltage applications at power frequencies. High electric strength under oil. Good electrical strength in air under normal humidity. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-CP-202-Cellulose-Paper-Reinforced-Phenolic-Resin-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.40 g/cc	1.30 - 1.40 g/cc	IEC 1212-2 8.1

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 100 MPa	>= 14500 psi	IEC 1212-2 5.7
Flexural Strength	>= 120 MPa	>= 17400 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 7.00 GPa	>= 1020 ksi	IEC 1212-2 5.2
Compressive Strength	>= 300 MPa	>= 43500 psi	Perpendicular to laminations; IEC 1212-2 5.3
Shear Strength	>= 10.0 MPa	>= 1450 psi	Parallel to laminations; IEC 1212-2 5.6

Electrical Properties	Metric	English	Comments
Dielectric Constant	<= 5.5 @Frequency 48.0 - 62.0 Hz	<= 5.5 @Frequency 48.0 - 62.0 Hz	IEC 1212-2 6.2
Dielectric Breakdown	>= 60000 V @Temperature 90.0 °C	>= 60000 V @Temperature 194 °F	Cond., In oil, Parallel to laminations; IEC 1212-2 6.2
Dissipation Factor	<= 0.050 @Frequency 48.0 - 62.0 Hz	<= 0.050 @Frequency 48.0 - 62.0 Hz	IEC 1212-2 6.2
Comparative Tracking Index	>= 100 V	>= 100 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Thermal Endurance	120 T.I.	IEC 1212-2 7.1
Water Absorption	< 550 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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