

Hippe PF CP 205 Cellulose Paper Reinforced Phenolic Resin - Sheet

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

Material Notes:

Used in electrical and electronic applications. Good stability of electrical properties under high humidity. Also available in cold or hot-punching versions. Flame retardant. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-CP-205-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	>= 60.0 MPa	>= 8700 psi	IEC 1212-2 5.7
Flexural Strength	>= 85.0 MPa	>= 12300 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 5.00 GPa	>= 725 ksi	IEC 1212-2 5.2
Compressive Strength	>= 250 MPa	>= 36300 psi	Perpendicular to laminations; IEC 1212-2 5.3
Shear Strength	>= 20.0 MPa	>= 2900 psi	Parallel to laminations; IEC 1212-2 5.6

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-1	V-1	IEC 1212-2 7.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+9 ohm	>= 1.00e+9 ohm	After immersion in water; IEC 1212-2 6.3
Dielectric Constant	<= 5.5 @Frequency 1.00e+6 Hz	<= 5.5 @Frequency 1.00e+6 Hz	IEC 1212-2 6.2
Dielectric Breakdown	>= 20000 V @Temperature 90.0 °C	>= 20000 V @Temperature 194 °F	In oil, parallel to laminations; IEC 1212-2 6.2
Dissipation Factor	<= 0.050 @Frequency 1.00e+6 Hz	<= 0.050 @Frequency 1.00e+6 Hz	IEC 1212-2 6.2
Comparative Tracking Index	>= 100 V	>= 100 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Thermal Endurance	100 T.I.	IEC 1212-2 7.1
Water Absorption	< 113 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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