

Hippe PF CC 204 Woven Cotton Cloth Reinforced Phenolic Resin - Sheet

Category : Polymer , Thermoset , Phenolic

Material Notes:

Used in mechanical and electrical applications (fine weave: =130 g/m², >30 threads/cm). Recommended for small parts. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-CC-204-Woven-Cotton-Cloth-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	>= 80.0 MPa	>= 11600 psi	IEC 1212-2 5.7
Flexural Strength	>= 100 MPa	>= 14500 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 7.00 GPa	>= 1020 ksi	IEC 1212-2 5.2
Shear Strength	>= 20.0 MPa	>= 2900 psi	Parallel to laminations; IEC 1212-2 5.6
Izod Impact, Unnotched (ISO)	>= 4.90 kJ/m ²	>= 2.33 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	>= 0.600 J/cm ²	>= 2.86 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 5.00e+7 ohm	>= 5.00e+7 ohm	After immersion in water; IEC 1212-2 6.3
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	>= 20000 V @Temperature 90.0 °C	>= 20000 V @Temperature 194 °F	In oil, parallel to laminations; 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	< 209 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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