

Hippe PF CC 203 Woven Cotton Cloth Reinforced Phenolic Resin - Sheet

Category : Polymer , Thermoset , Phenolic

Material Notes:

Used in mechanical applications (fine weave: =130 g/m², >30 threads/cm). Recommended for small parts. Better mechanical properties and poorer electrical properties than type PF CC 204. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-CC-203-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	>= 85.0 MPa	>= 12300 psi	IEC 1212-2 5.7
Flexural Strength	>= 110 MPa	>= 16000 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 7.00 GPa	>= 1020 ksi	IEC 1212-2 5.2
Shear Strength	>= 25.0 MPa	>= 3630 psi	Parallel to laminations; IEC 1212-2 5.6
Izod Impact, Unnotched (ISO)	>= 5.90 kJ/m ²	>= 2.81 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	>= 0.700 J/cm ²	>= 3.33 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+6 ohm	>= 1.00e+6 ohm	After immersion in water; IEC 1212-2 6.3
Dielectric Breakdown	>= 1000 V @Temperature 90.0 °C	>= 1000 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	< 319 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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