

Hippe PF GC 201 Woven Glass Cloth Reinforced Phenolic Resin - Sheet

Category : Polymer , Thermoset , Phenolic , Phenolic/Glass Fiber SMC

Material Notes:

Used in mechanical and electrical applications. High mechanical strength and good electrical properties under normal humidity. Heat resistant. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-GC-201-Woven-Glass-Cloth-Reinforced-Phenolic-Resin-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 - 1.80 g/cc	1.60 - 1.80 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	≥ 140 MPa	≥ 20300 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	≥ 14.0 GPa	≥ 2030 ksi	IEC 1212-2 5.2
Izod Impact, Unnotched (ISO)	≥ 29.0 kJ/m ²	≥ 13.8 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	≥ 2.50 J/cm ²	≥ 11.9 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00\text{e}+8$ ohm	$\geq 1.00\text{e}+8$ ohm	After immersion in water; IEC 1212-2 6.3
Dielectric Constant	≤ 5.0 @Frequency 48.0 - 62.0 Hz	≤ 5.0 @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	< 310 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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