

Hippe EP GC 203 Woven Glass Cloth Reinforced Epoxy Resin - Sheet

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler

Material Notes:

Used in mechanical, electrical and electronic applications. Extremely high mechanical strength at moderate temperature. Very good stability of electrical properties under high humidity. High mechanical strength at elevated temperatures. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-EP-GC-203-Woven-Glass-Cloth-Reinforced-Epoxy-Resin-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.90 g/cc	1.70 - 1.90 g/cc	IEC 1212-2 8.1

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 300 MPa	>= 43500 psi	IEC 1212-2 5.7
Flexural Strength	>= 170 MPa	>= 24700 psi	Perpendicular to laminations; IEC 1212-2 5.1
	@Temperature 150 °C	@Temperature 302 °F	
Flexural Modulus	>= 340 MPa	>= 49300 psi	Perpendicular to laminations; IEC 1212-2 5.1
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Strength	>= 24.0 GPa	>= 3480 ksi	IEC 1212-2 5.2
Shear Strength	>= 350 MPa	>= 50800 psi	Perpendicular to laminations; IEC 1212-2 5.3
Izod Impact, Unnotched (ISO)	>= 30.0 MPa	>= 4350 psi	Parallel to laminations; IEC 1212-2 5.6
Charpy Impact Unnotched	>= 34.0 kJ/m ²	>= 16.2 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
	>= 3.30 J/cm ²	>= 15.7 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 5.00e+10 ohm	>= 5.00e+10 ohm	After immersion in water; IEC 1212-2 6.3
Dielectric Constant	<= 5.5	<= 5.5	IEC 1212-2 6.2
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
	<= 5.5	<= 5.5	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	>= 35000 V	>= 35000 V	

Dielectric Breakdown Electrical Properties	Metric @ Temperature 90.0 °C	English @ Temperature 194 °F	Comments In oil, parallel to laminations; IEC 1212-2 6.2
Dissipation Factor	<= 0.040 @Frequency 48.0 - 62.0 Hz	<= 0.040 @Frequency 48.0 - 62.0 Hz	IEC 1212-2 6.2
	<= 0.040 @Frequency 1.00e+6 Hz	<= 0.040 @Frequency 1.00e+6 Hz	IEC 1212-2 6.2
Comparative Tracking Index	>= 180 V	>= 180 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Thermal Endurance	155 T.I.	IEC 1212-2 7.1
Water Absorption	< 34 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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