

Hippe EP GM 201 Glass Mat Reinforced Epoxy Resin - Sheet

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

Material Notes:

Used in mechanical and electrical applications. Extremely high mechanical strength at moderate temperature. Very good electrical properties under high humidity. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-EP-GM-201-Glass-Mat-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	>= 250 MPa	>= 36300 psi	IEC 1212-2 5.7
Flexural Strength	>= 320 MPa	>= 46400 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 15.0 GPa	>= 2180 ksi	IEC 1212-2 5.2
Compressive Strength	>= 350 MPa	>= 50800 psi	Perpendicular to laminations; IEC 1212-2 5.3
Shear Strength	>= 20.0 MPa	>= 2900 psi	Parallel to laminations; IEC 1212-2 5.6
Izod Impact, Unnotched (ISO)	>= 54.0 kJ/m ²	>= 25.7 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 5.00e+9 ohm	>= 5.00e+9 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	
Dielectric Breakdown	<= 5.5	<= 5.5	In oil, parallel to laminations; IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Breakdown	>= 35000 V	>= 35000 V	In oil, parallel to laminations; IEC 1212-2 6.2
	@Temperature 90.0 °C	@Temperature 194 °F	
Dissipation Factor	<= 0.050	<= 0.050	IEC 1212-2 6.2

Electrical Properties	@Frequency 48.0 - 62.0 Metric Hz	@Frequency 48.0 - 62.0 English Hz	Comments
	<= 0.050	<= 0.050	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	>= 200 V	>= 200 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Thermal Endurance	130 T.I.	IEC 1212-2 7.1
Water Absorption	< 40 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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