

Hippe EP GM 204 Glass Mat Reinforced Epoxy Resin - Sheet

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-EP-GM-204-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	>= 160 MPa	>= 23200 psi	Perpendicular to laminations; IEC 1212-2 5.1
	@Temperature 150 °C	@Temperature 302 °F	
	>= 320 MPa	>= 46400 psi	Perpendicular to laminations; IEC 1212-2 5.1
	@Temperature 23.0 °C	@Temperature 73.4 °F	
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

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	IEC 1212-2 7.2

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	
	<= 5.5	<= 5.5	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	@Temperature 90.0 °C	@Temperature 194 °F	In oil, parallel to laminations; IEC 1212-2 6.2
Dissipation Factor	<= 0.050	<= 0.050	IEC 1212-2 6.2
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
	<= 0.050	<= 0.050	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
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	< 40 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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