

Hippe PI GC 301 Woven Glass Cloth Reinforced Phenolic Sheet

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

Material Notes:

Used in electrical and mechanical applications. Very good mechanical and electrical properties at high temperature. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PI-GC-301-Woven-Glass-Cloth-Reinforced-Phenolic-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 2.00 g/cc	1.80 - 2.00 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	>= 400 MPa	>= 58000 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 22.0 GPa	>= 3190 ksi	IEC 1212-2 5.2
Compressive Strength	>= 400 MPa	>= 58000 psi	Perpendicular to laminations; IEC 1212-2 5.3
Shear Strength	>= 35.0 MPa	>= 5080 psi	Parallel to laminations; IEC 1212-2 5.6
Charpy Impact Unnotched	>= 7.00 J/cm ²	>= 33.3 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

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

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+8 ohm	>= 1.00e+8 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	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Breakdown	>= 40000 V	>= 40000 V	In oil, parallel to laminations; IEC 1212-2 6.2
	@Temperature 90.0 °C	@Temperature 194 °F	

Electrical Properties	≤ 0.030 Metric	≤ 0.030 English	Comments
Dielectric Loss Factor	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	IEC 1212-2 6.2
	≤ 0.030	≤ 0.030	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	≥ 150 V	≥ 150 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Thermal Endurance	160 T.I.	IEC 1212-2 7.1
Water Absorption	< 127 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China