

## Hippe EP GC 205 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. Roving cloth in very coarse weave. Information provided by Hippe.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hippe-EP-GC-205-Woven-Glass-Cloth-Reinforced-Epoxy-Resin-Sheet.php](http://www.lookpolymers.com/polymer_Hippe-EP-GC-205-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	
Flexural Modulus	>= 20.0 GPa	>= 2900 ksi	IEC 1212-2 5.2
Compressive Strength	>= 350 MPa	>= 50800 psi	Perpendicular to laminations; IEC 1212-2 5.3
Izod Impact, Unnotched (ISO)	>= 54.0 kJ/m <sup>2</sup>	>= 25.7 ft-lb/in <sup>2</sup>	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	>= 5.00 J/cm <sup>2</sup>	>= 23.8 ft-lb/in <sup>2</sup>	Parallel to laminations; IEC 1212-2 5.5.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+10 ohm	>= 1.00e+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	
Dielectric Constant	<= 5.5	<= 5.5	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

Electrical Properties	@Temperature 90.0 °C Metric	@Temperature 194 °F English	Comments
Dissipation Factor	<= 0.040	<= 0.040	IEC 1212-2 6.2
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
Comparative Tracking Index	<= 0.040	<= 0.040	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	< 34 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

## Contact Songhan Plastic Technology Co.,Ltd.

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