

Hippe EP PC 301 Woven Polyester Cloth Reinforced Epoxy Resin - Sheet

Category : Polymer , Thermoset , Epoxy

Material Notes:

Used in electrical and mechanical applications. Good resistance to SF6. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-EP-PC-301-Woven-Polyester-Cloth-Reinforced-Epoxy-Resin-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 - 1.40 g/cc	1.20 - 1.40 g/cc	IEC 1212-2 8.1

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 135 MPa	>= 19600 psi	IEC 1212-2 5.7
Flexural Strength	>= 110 MPa	>= 16000 psi	Perpendicular to laminations; IEC 1212-2 5.1
Compressive Strength	>= 200 MPa	>= 29000 psi	Perpendicular to laminations; IEC 1212-2 5.3
Shear Strength	>= 12.0 MPa	>= 1740 psi	Parallel to laminations; IEC 1212-2 5.6
Izod Impact, Unnotched (ISO)	>= 145 kJ/m ²	>= 69.0 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	>= 13.0 J/cm ²	>= 61.9 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

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	<= 5.3	<= 5.3	IEC 1212-2 6.2
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
Dielectric Breakdown	<= 5.3	<= 5.3	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Breakdown	>= 55000 V	>= 55000 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
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
	<= 0.050	<= 0.050	

Electrical Properties	Metric @ Frequency 1.00e+6 Hz	English @ Frequency 1.00e+6 Hz	IEC 1212-2 6.2 Comments
Comparative Tracking Index	>= 380 V	>= 380 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Thermal Endurance	130 T.I.	IEC 1212-2 7.1
Water Absorption	< 220 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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