

Hippe MF CC 201 Woven Cotton Cloth Reinforced Melamine Resin - Sheet

Category : Polymer , Thermoset , Melamine

Material Notes:

Used in mechanical and electrical applications (coarse weave: >130 g/m², =30 threads/cm). Arc and tracking resistant. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-MF-CC-201-Woven-Cotton-Cloth-Reinforced-Melamine-Resin-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.50 g/cc	1.30 - 1.50 g/cc	IEC 1212-2 8.1

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 60.0 MPa	>= 8700 psi	IEC 1212-2 5.7
Flexural Strength	>= 70.0 MPa	>= 10200 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 5.00 GPa	>= 725 ksi	IEC 1212-2 5.2
Compressive Strength	>= 90.0 MPa	>= 13100 psi	Perpendicular to laminations; IEC 1212-2 5.3
Shear Strength	>= 45.0 MPa	>= 6530 psi	Parallel to laminations; IEC 1212-2 5.6
Izod Impact, Unnotched (ISO)	>= 2.50 kJ/m ²	>= 1.19 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.3
Charpy Impact Unnotched	>= 0.300 J/cm ²	>= 1.43 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	>= 1.00e+7 ohm	>= 1.00e+7 ohm	After immersion in water; IEC 1212-2 6.3
Dielectric Constant	<= 8.0	<= 8.0	IEC 1212-2 6.2
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
	<= 8.0	<= 8.0	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	>= 15000 V	>= 15000 V	

Dielectric Breakdown Electrical Properties	Metric @ Temperature 90.0 °C	English @ Temperature 194 °F	Comments In oil, parallel to laminations; IEC 1212-2 6.2
Dissipation Factor	<= 0.030	<= 0.030	IEC 1212-2 6.2
	@Frequency 48.0 - 62.0 Hz	@Frequency 48.0 - 62.0 Hz	
	<= 0.030	<= 0.030	IEC 1212-2 6.2
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	>= 500 V	>= 500 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Proof Tracking Index	500	IEC 1212-2 6.4
Thermal Endurance	130 T.I.	IEC 1212-2 7.1
Water Absorption	< 305 mg	IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm

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