

XX Phenolic Laminate

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

Material Notes:

Paper based phenolic provides low cost electrical and mechanical properties. It is widely used for switchboards, panel boards, insulating washers, and intricate punched parts. Information provided by Aurora Technologies.

Order this product through the following link:

http://www.lookpolymers.com/polymer_XX-Phenolic-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	
Water Absorption	0.50 %	0.50 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	100	100	
Tensile Strength, Ultimate	93.1 MPa	13500 psi	
Flexural Strength	117 MPa	17000 psi	
Compressive Strength	207 MPa	30000 psi	
Shear Strength	68.9 MPa	10000 psi	
Izod Impact, Notched	0.294 J/cm	0.550 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	140 °C	284 °F	Mechanical
	140 °C	284 °F	Electrical

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+11 ohm-cm	4.00e+11 ohm-cm	
Surface Resistance	4.00e+10 ohm	4.00e+10 ohm	
Dielectric Constant	4.6 @Frequency 1e+6 Hz	4.6 @Frequency 1e+6 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
Dielectric Breakdown	60000 V	60000 V	
Dissipation Factor	0.040	0.040	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Descriptive Properties	Value		Comments
Color	Natural/Black		

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