

XXX 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_XXX-Phenolic-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	
Water Absorption	0.50 %	0.50 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110	110	
Tensile Strength, Ultimate	138 MPa	20000 psi	
Flexural Strength	159 MPa	23000 psi	
Compressive Strength	262 MPa	38000 psi	
Shear Strength	82.7 MPa	12000 psi	
Izod Impact, Notched	0.427 J/cm	0.800 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	3.00e+13 ohm-cm	3.00e+13 ohm-cm	
Surface Resistance	7.00e+11 ohm	7.00e+11 ohm	
Dielectric Constant	4.9 @Frequency 1e+6 Hz	4.9 @Frequency 1e+6 Hz	
Dielectric Strength	18.7 kV/mm	475 kV/in	
Dielectric Breakdown	65000 V	65000 V	
Dissipation Factor	0.042	0.042	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Arc Resistance	124 sec	124 sec	

Descriptive Properties	Value	Comments
Color	Natural	

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