

X 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_X-Phenolic-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0510 lb/in ³	
Water Absorption	2.4 %	2.4 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110	110	
Tensile Strength, Ultimate	172 MPa	25000 psi	
Flexural Strength	207 MPa	30000 psi	
Compressive Strength	303 MPa	44000 psi	
Shear Strength	96.5 MPa	14000 psi	
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	Mechanical
	130 °C	266 °F	Electrical

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.4	6.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	17.7 kV/mm	450 kV/in	
Dielectric Breakdown	50000 V	50000 V	
Dissipation Factor	0.070	0.070	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value ^{nl} /Black	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China