

## XXXPC 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\\_XXXPC-Phenolic-Laminate.php](http://www.lookpolymers.com/polymer_XXXPC-Phenolic-Laminate.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0490 lb/in <sup>3</sup>	
Water Absorption	0.40 %	0.40 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	
Tensile Strength, Ultimate	82.7 MPa	12000 psi	
Flexural Strength	124 MPa	18000 psi	
Compressive Strength	207 MPa	30000 psi	
Shear Strength	68.9 MPa	10000 psi	
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	Mechanical
	125 °C	257 °F	Electrical

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+12 ohm-cm	8.00e+12 ohm-cm	
Surface Resistance	2.00e+12 ohm	2.00e+12 ohm	
Dielectric Constant	4.4	4.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	21.7 kV/mm	550 kV/in	
Dielectric Breakdown	70000 V	70000 V	
Dissipation Factor	0.037	0.037	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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