



Aurora Technologies

Material Data Sheet

NEMA Grade XXXPC

Description:

Paper based Phenolic provides low cost electrical and mechanical properties. They are widely used for switchboards, panel boards, insulating washers and intricate punched parts.

Typical Properties:

	<u>Units</u>	<u>Grade XXXPC</u>
Physical		
Color	-	Natural
Density	lb/in ³	.049
Water Absorption	%	0.4
Hardness	Rockwell M	95
Tensile	PSI	12,000
Compressive	PSI	30,000
Flexural	PSI	18,000
Max. Operating Temp.		
Electrical	C	125
Mechanical	C	125
Impact Strength	ft-lb/in	0.45
Shear	PSI	10,000
Electrical		
Dielectric Strength	vpm, short time	550
Dissipation Factor	@10 ⁶ cycles/sec	0.037
Dielectric Constant	@10 ⁶ cycles/sec	4.4
Volume Resistivity	megohm-cm	8x10 ⁶
Surface Resistivity	megohm	2x10 ⁶
Arc Resistance	seconds	n/a
Parallel Dielectric	kv	70

**All of the properties listed above are typical values. These properties may vary based upon the manufacturer and environmental conditions. If specific criterion is to be met, then please contact one of our sales representatives for further evaluation.