



Aurora Technologies

Material Data Sheet

NEMA Grade XXX

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 XXX</u>
Physical		
Color	-	Natural
Density	lb/in ³	.047
Water Absorption	%	0.5
Hardness	Rockwell M	110
Tensile	PSI	20,000
Compressive	PSI	38,000
Flexural	PSI	23,000
Max. Operating Temp.		
Electrical	C	140
Mechanical	C	140
Impact Strength	ft-lb/in	0.80
Shear	PSI	12,000
Electrical		
Dielectric Strength	vpm, short time	475
Dissipation Factor	@10 ⁶ cycles/sec	0.042
Dielectric Constant	@10 ⁶ cycles/sec	4.9
Volume Resistivity	megohm-cm	3x10 ⁷
Surface Resistivity	megohm	7x10 ⁵
Arc Resistance	seconds	124
Parallel Dielectric	kv	65

**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.