



Aurora Technologies

Material Data Sheet

NEMA Grade X

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 X</u>
Physical		
Color	-	Natural/Black
Density	lb/in ³	.051
Water Absorption	%	2.4
Hardness	Rockwell M	110
Tensile	PSI	25,000
Compressive	PSI	44,000
Flexural	PSI	30,000
Max. Operating Temp.		
Electrical	C	130
Mechanical	C	130
Impact Strength	ft-lb/in	0.8
Shear	PSI	14,000
Electrical		
Dielectric Strength	vpm, short time	450
Dissipation Factor	@10 ⁶ cycles/sec	0.070
Dielectric Constant	@10 ⁶ cycles/sec	6.4
Volume Resistivity	megohm-cm	n/a
Surface Resistivity	megohm	n/a
Arc Resistance	seconds	n/a
Parallel Dielectric	kv	50

**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.