



# Aurora Technologies

## Material Data Sheet

### **NEMA Grade XP**

#### **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 XP</u>
<b>Physical</b>		
Color	-	Tan/Black/Chocolate
Density	lb/in <sup>3</sup>	.051
Water Absorption	%	3.3
Hardness	Rockwell M	105
Tensile	PSI	n/a
Compressive	PSI	n/a
Flexural	PSI	28,000
Max. Operating Temp.		
Electrical	C	130
Mechanical	C	130
Impact Strength	ft-lb/in	0.80
Shear	PSI	15,000
<b>Electrical</b>		
Dielectric Strength	vpm, short time	375
Dissipation Factor	@10 <sup>6</sup> cycles/sec	0.096
Dielectric Constant	@10 <sup>6</sup> cycles/sec	6.7
Volume Resistivity	megohm-cm	n/a
Surface Resistivity	megohm	n/a
Arc Resistance	seconds	n/a
Parallel Dielectric	kV	55

\*\*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.