



Aurora Technologies

Material Data Sheet

NEMA Grade CE

Description:

Cotton based Phenolic provides more mechanical strength than paper grades and has a finer surface with better machinability. These materials are used for gears, pinions, bearings, bushings and many structural applications.

Typical Properties:

	<u>Units</u>	<u>Grade CE</u>
Physical		
Color	-	Natural
Density	lb/in ³	.050
Water Absorption	%	1.1
Hardness	Rockwell M	105
Tensile	PSI	13,000
Compressive	PSI	37,000
Flexural	PSI	19,000
Max. Operating Temp.		
Electrical	C	115
Mechanical	C	125
Impact Strength	ft-lb/in	1.8
Shear	PSI	10,000
Electrical		
Dielectric Strength	vpm, short time	200
Dissipation Factor	@10 ⁶ cycles/sec	n/a
Dielectric Constant	@10 ⁶ cycles/sec	n/a
Volume Resistivity	megohm-cm	n/a
Surface Resistivity	megohm	n/a
Arc Resistance	seconds	n/a
Parallel Dielectric	kv	n/a

**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.