

LE Phenolic Laminate

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

Material Notes:

Linen based phenolic provides more mechanical strength than paper grades and has a finer surface with better machinability. This material is used for gears, pinions, bearings, bushings, and many structural applications. Information provided by Aurora Technologies.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LE-Phenolic-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0500 lb/in ³	
Water Absorption	1.0 %	1.0 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105	105	
Tensile Strength, Ultimate	103 MPa	15000 psi	
Flexural Strength	172 MPa	25000 psi	
Compressive Strength	262 MPa	38000 psi	
Shear Strength	96.5 MPa	14000 psi	
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	115 °C	239 °F	Electrical
	125 °C	257 °F	Mechanical

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.00e+10 ohm-cm	7.00e+10 ohm-cm	
Surface Resistance	6.00e+10 ohm	6.00e+10 ohm	
Dielectric Constant	5.3 @Frequency 1e+6 Hz	5.3 @Frequency 1e+6 Hz	
Dielectric Strength	13.8 kV/mm	350 kV/in	
Dielectric Breakdown	70000 V	70000 V	
Dissipation Factor	0.060	0.060	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Descriptive Properties	Value		Comments
Color	Natural/Black		

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