

MATERIAL SPECIFICATION

LE Phenolic

Phenolic is a high pressure industrial laminate manufactured from a fine weave cotton fabric, saturated with a thermosetting phenolic resin. This material is heat cured and laminated under high pressure to produce a dense composite material with good mechanical strength and impact resistance.

PROPERTIES	VALUES
<i>Flexural Strength</i>	1.34 psi
Lengthwise	20,000
Crosswise	19,500
<i>Compressive Strength</i>	
Flatwise	35,000
<i>Bond Strength, lbs</i>	1,700
<i>Tensile Strength</i>	
Lengthwise	12,500
Crosswise	8,750
<i>Izod Impact Strength, ft-lb/inch</i>	
Lengthwise	1.65
Crosswise	1.40
<i>Rockwell Hardness, M Scale</i>	104
<i>Water Absorption, %</i>	
0.062" thick	1.3
0.125" thick	0.9
0.500" thick	0.5
<i>Dielectric Strength, Kv</i>	
As Rec'd	50
D-48/50	
<i>Max Operating Temperature, F</i>	250°