Certified ISO 9001:2015 and AS9100 D®

Material Specifications

ST Grade LE Phenolic

Density, gm/cc	1.33
Lbs per sq ft (1/8th)	0.9
Tensile Strength, PSI, lengthwise	13,500
Tensile Strength, PSI, crosswise	9,500
Compressive Strength, PSI, flatwise	37,000
Flexural Strength, PSI, lengthwise	18,000
Flexural Strength, PSI, crosswise	15,000
Hardness, Rockwell (M)	105
Dielectric Strength, VPM, perpendicular (1/16th)	500
(1/8th)	360
Water Absorption, % 24hrs (1/16th)	1.30
(1/8th)	0.80
(1/2)	0.50
Heat Resistance, degrees F, continuous	250

Grade LE is a fine-weave cloth-phenolic. It is similar to NEMA L in its mechanical and machining characteristics but superior in moisture resistance and electrical properties. It is typically used in applications where both mechanical and electrical values are required.
Most properties are closely similar to medium-weave laminates such as Grade C and CE, emphasis on machineability / punchability and Electrical value, but with added availability in thin-gauges.

N.B.: Values are based on typical Test Methods and Conditions and to be used for Engineering and Design Purposes only.

Tel: (450) 430-3030 • Fax: (450) 430-3031 • Toll Free: 1-888–475–8843
info@synthanetaylor.com • www.synthanetaylor.com