Certified ISO 9001:2015 and AS9100 D®

Material Specifications

ST Grade X-116 Phenolic

Density, gm/cc	1.35
Lbs per sq ft (1/8th)	0.87
Tensile Strength, PSI, lengthwise	20,000
Tensile Strength, PSI, crosswise	16,000
Compressive Strength, PSI, flatwise	36,000
Flexural Strength, PSI, lengthwise	28,000
Flexural Strength, PSI, crosswise	23,000
Hardness, Rockwell (R)	110
Dielectric Strength, VPM, perpendicular (1/16th)	700
(1/8th)	500
Dielectric Strength, VPM, parallel step by step	50
Water Absorption, % 24hrs (1/16th)	4.0
(1/8th)	2.3
(1/2)	0.9
Heat Resistance, degrees F, continuous	250

Grade X-116 is a NEMA X paper-phenolic laminate used in general-purpose mechanical and low-voltage applications where electrical value is not critical or where hi-humidity is not a concern.

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

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