

<b>TYPICAL PROPERTIES of PHENOLIC LAMINATES (SHEET FORM)</b>				
<b>ASTM or UL test</b>	<b>Property</b>	<b>Paper(X)</b>	<b>Canvas(CE)</b>	<b>Linen(LE)</b>
<b>PHYSICAL</b>				
D792	Density (lb/in <sup>3</sup> ) (g/cm <sup>3</sup> )	0.049 1.35	0.050 1.37	0.048 1.34
D570	Water Absorption, 24 hrs (%)	2.0	2.5	1.8
<b>MECHANICAL</b>				
D638	Tensile Strength (psi) -lengthwise -crosswise	15,000 12,000	11,000 9,000	13,000 9,000
D790	Flexural Strength (psi)-lengthwise -crosswise	16,000 13,200	17,500 15,000	22,000 16,000
D790	Flexural Modulus (psi)-lengthwise -crosswise	1,100,000 900,000	1,600,000 1,500,000	1,600,000 1,200,000
D256	IZOD Notched Impact (ft-lb/in)-lengthwise -crosswise	0.65 0.60	1.70 1.50	1.35 1.10
D695	Compressive Strength (psi)	32,000	37,000	37,000
D785	Hardness, Rockwell M	M100	M100	M100
<b>THERMAL</b>				
D696	Coefficient of Linear Thermal Expansion (x 10 <sup>-5</sup> in./in./°F) -lengthwise -crosswise	0.80 1.20	1.10 1.22	1.00 1.06
-	Max Operating Temp (°F / °C)	257 / 125	257 / 125	285 / 140
C177	Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F) (x 10 <sup>-4</sup> cal/cm-sec-°C)	2.03 7.0	2.03 7.0	2.03 7.0
UL94	Flammability Rating	H-B	H-B	H-B
<b>ELECTRICAL</b>				
D149	Dielectric Strength (V/mil) short time, 1/8" thick	750(XX)	550(CE)	625(LE)
D150	Dielectric Constant at 1 MHz	5	5	6
D150	Dissipation Factor at 1 MHz	0.045	-	0.045
D495	Arc Resistance (sec)	110	15	15

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control.

Contact us for manufacturers' complete material property datasheets.

All values at 73°F (23°C) unless otherwise noted.

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