



# PROFESSIONAL PLASTICS, INC.

Leading Global Supplier of Engineered Plastic Shapes

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Typical Properties of G-11 Glass Epoxy Laminate Sheets (SHEET Mechanical Properties Only - Rod and Tube forms may differ )		
ASTM or UL test	Property	G-11
<b>PHYSICAL PROPERTIES</b>		
D792	Density (lb/in <sup>3</sup> ) (g/cm <sup>3</sup> )	0.065 1.80
D570	Water Absorption, 24 hrs (%)	0.20
<b>MECHANICAL PROPERTIES</b>		
D638	Tensile Strength (psi) -lengthwise -crosswise	43,000 37,000
D790	Flexural Strength (psi) -lengthwise -crosswise	80,000 70,000
D790	Flexural Modulus (Kpsi) -lengthwise -crosswise	3,000 2,700
D256	IZOD Notched Impact (ft-lb/in) -lengthwise -crosswise	12.0 9.0
D695	Compressive Strength (psi)	63,000
D785	Hardness, Rockwell M	M112
<b>THERMAL PROPERTIES</b>		
D696	Coefficient of Linear Thermal Expansion (x 10 <sup>-5</sup> in./in./°F) -lengthwise -crosswise	0.72 0.83
-	Max Operating Temp (°F / °C)	329 / 165
C177	Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F) (x 10 <sup>-4</sup> cal/cm-sec-°C)	2.0 7.0
UL94	Flammability Rating	H-B
<b>ELECTRICAL PROPERTIES</b>		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	900
D150	Dielectric Constant at 1 MHz	4.5
D150	Dissipation Factor at 1 MHz	0.020
D495	Arc Resistance (sec)	120

Typical values intended for reference and comparison purposes only. This data should not be used as the sole basis for design specifications or quality control. Contact us for specific manufacturers' property datasheets for more complete technical information. All values at 73°F (23°C) unless otherwise noted.

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