

Typical Properties of Semitron ESd 480

ASTM or UL test	Property	Semitron ESd 480
Physical		
D792	Density (lb/in ³) (g/cm ³)	0.054 1.49
D570	Water Absorption, 24 hrs (%)	0.18
Mechanical		
D638	Tensile Strength, Ultimate (psi)	14,500
D638	Tensile Modulus (psi)	940,000
D638	Tensile Elongation at Break (%)	2.5
D790	Flexural Strength (psi)	22,000
D790	Flexural Modulus (psi)	950,000
D695	Compressive Strength (psi)	25,500
D695	Compressive Modulus (psi)	600,000
D785	Hardness, Rockwell	R122 / M95
D256	IZOD Notched Impact (ft-lb/in)	1.0
Thermal		
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	2.8
D648	Heat Deflection Temp (°F / °C) at 264 psi	480 / 248
-	Max Operating Temp (°F / °C)	475 / 246
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	- -
UL94	Flammability Rating	V-0
Electrical		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	-
D150	Dielectric Constant at 1 MHz	-
D150	Dissipation Factor at 1 MHz	-
EOS/ESD S11.11	Surface Resistivity (ohms/square)	10⁶ - 10⁹
Mil-B-81705C	Max Static Decay (seconds)	< 2

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. Semitron is a registered trademark of Quadrant Engineering Plastic Products.

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