



TYPICAL PROPERTIES of SEMITRON® MPR 1000		
ASTM or UL test	Property	Semitron® MPR 1000
<b>PHYSICAL</b>		
D792	Density (lb/in <sup>3</sup> )	1.48
	(g/cm <sup>3</sup> )	1.51
<b>MECHANICAL</b>		
D638	Tensile Strength (psi)	15,000
D638	Tensile Modulus (psi)	1,000,000
D638	Tensile Elongation at Break (%)	5.0
D790	Flexural Strength (psi)	25,000
D790	Flexural Modulus of Elasticity (psi)	1,100,000
D732	Shear Strength (psi)	12,000
D695	Compressive Strength (psi)	24,000
D695	Compressive Modulus (psi)	475,000
D785	Hardness, Rockwell, Scale	M106
D2240	Hardness, Durometer, Shore "D" Scale	-
D256	Izod Impact (Notched)	1.3
QTM5507	Limiting PV (with 4:1 safety factor applied)	6,000
<b>THERMAL</b>		
E-831	Coefficient of Linear Thermal Expansion (-40F to 300F)	1.5 x 10 <sup>-5</sup>
D648	Heat Deflection Temp 264 psi	534
D3418	Tg- Glass Transition amorphous	320 / 160
D3418	Melting Point (crystalline peak)	-
-	Continuous Service Temperature	500
E 1530-11	Thermal Conductivity	3.54
<b>ELECTRICAL</b>		
D149	Dielectric Strength, Short Term	570
EOS/ESD S11.11	Surface Resistivity	>10 <sup>13</sup>
D150	Dielectric Constant, 10 <sup>5</sup> Hz	3.68
D150	Dissipation Factor, 10 <sup>6</sup> Hz	0.008
UL94	Flammability @ 3.1 (1/8 in) <sup>(3)</sup>	V0

Data provided is for reference purposes only. Additional testing may be required for design specifications or quality control. All values at 73°F unless otherwise stated.

