

## Lexan® 104 Resin

PROPERTY	NOMINAL VALUES	TEST METHOD
<b>Physical</b>		
Specific Gravity	1.20	ASTM D792
Water Absorption at 24 hours	0.15 %	ASTM D570
Water Absorption at equilibrium		ASTM D570
73 °F	0.35 %	
212 °F	0.58 %	
<b>Electrical</b>		
Volume Resistivity	1.0E+17 Ohm-cm	ASTM D257
Dielectric Strength, in air (0.126 in)	380 V/mil	ASTM D149
Dielectric Constant		ASTM D150
50 Hz	3.170	
60 Hz	3.170	
1E + 6 Hz	2.960	
Dissipation Factor		ASTM D150
50 Hz	0.00090	
60 Hz	0.00090	
1E + 6 Hz	0.0100	
<b>Mechanical</b>		
Tensile Strength at Yield (Type I, 2.0 in/min)	9000 psi	ASTM D638
Tensile Strength at Break (Type I, 2.0 in/min)	10,000 psi	ASTM D638
Tensile Elongation at Yield (Type I, 2.0 in/min)	7.0 %	ASTM D638
Tensile Elongation at Break (Type I, 2.0 in/min)	140 %	ASTM D638
Flexural Strength at Yield (0.051 in/min, 1.97 in Span)	14,200 psi	ASTM D790
Flexural Modulus (0.051 in/min, 1.97 in Span)	340,000 psi	ASTM D790
<b>Thermal</b>		
Vicat Softening Point (Rate B, Loading 2 (50N))	310 °F	ASTM D1525
DTUL, Unannealed (66 psi, 0.252 in)	280 °F	ASTM D648
DTUL, Unannealed (264 psi, 0.252 in)	270 °F	ASTM D648
<b>Impact</b>		
Notched Izod Impact (73 °F)	17.0 ft-lb/in	ASTM D256
Unnotched Izod Impact (73 °F)	60.0 ft-lb/in	ASTM D256
Tensile Impact Strength (Type S)	300 ft-lb/in <sup>2</sup>	ASTM D1822
<b>Hardness</b>		
Rockwell Hardness		ASTM D785
M-Scale	70	
R-Scale	118	
<b>Flame Characteristics</b>		
Flame Rating – UL (0.0580 in)	HB	UL 94
<b>Optical</b>		
Refractive Index	1.586	ASTM D542
Transmittance	88.0 %	ASTM D1003
Haze	1.0 %	ASTM D1003

\*Lexan is a registered trademark of General Electric Company

\*\*Flame characteristics not intended to reflect hazards under actual fire conditions.

\*\*\*Typical values only. Actual properties of individual batches will vary within specification limits.