



High Voltage, High Performance Plastic

REXOLITE SPECIFICATIONS

Rexolite® 1422

Rexolite® 1422 is chemically resistant, light weight, resists water absorption, and has negligible outgassing.

Military Specifications of Rexolite®

Rexolite® 1422 conforms to military specification LP-516A, type E2, formerly known as MIL-P-77C-E2.

Current:

Mil Spec LP-516A, type E2

Former:

Mil Spec MIL-P-77C-E2

Rexolite® Adhesive #12517

Is for bonding Rexolite® 1422 to itself.

[Rexolite® Adhesive 12517 Instructions](#)

[Rexolite MSDS Sheets](#)

[Rexolite® 1422 MSDS Standard](#)

[Rexolite® Adhesive #12517 MSDS](#)

TYPICAL PROPERTIES of REXOLITE®

ASTM OR UL TEST	PROPERTY	REXOLITE® 1422

-	Acoustic Impedance	2.5
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	3.8
D792	Density (lb/in ³) (g/cm ³)	0.038 1.05
D150	Dielectric Constant (1 MHz to 500 GHz)	2.53
D149	Dielectric Strength (V/mil) short time, 1/8" thick	500
D150	Dissipation Factor at 1 MHz at 10 MHz at 10 GHz	0.00012 0.00025 0.00066
D638	Flexural Strength (psi)	11,500
D256	IZOD Notched Impact (ft-lb/in)	0.3
-	Optical Transmittance, Visible Light	87%
D648	Recommended Operating Temperature Range (°F) (°C)	-76 to +212 -60 to +100
-	Refractive Index @ 589 nM @ 486 nM @ 656 nM	1.59 1.604 1.585
D257	Surface Resistivity (ohm-cm)at 50% RH	>10 ¹⁴

D638	Tensile Strength (psi)	9,000
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	1.01 3.5
-	Velocity of Sound (in/sec)	93,000
-	Velocity of Sound (in/sec)	93,000
D257	Volume Resistivity (ohm-cm)at 50% RH	>10 ¹⁶
D570	Water Absorption, 24 hrs (%)	0.08