OPTIX-L Utran

PLASKOLITE

Thermal	TEST METHOD	UNITS	OPTIX-L
Flame Spread Index	ASTM E-84		140
Smoke Density Rating	ASTM D-2843	%	13.5
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D-648	°F	200
Coefficient of Thermal Expansion	ASTM D-696	in/(in-°F) x 10 ⁻⁵	3.5 E-05 in/in/°F
Self-Ignition Temperature	ASTM D-1929	°F	750°F
Forming Temperature		°F	280°- 340°F (138°- 170°C)
Thermal Conductivity	ASTM C-177	BTU-ft/(hr-ft ² -°F)	1.45 Btu in/ft^2 hr. °F
Maximum Recommended Continuous Service Temperature		°F	175

Mechanical	TEST METHOD	UNITS	OPTIX-L
Dielectric Contstant @1mHz	ASTM D-150		2.7
Flexural Modulus of Elasticity	ASTM D-790	psi	461,000
Compressive Strength	ASTM D-695	psi	83,300
Dielectric Constant @1kHz	ASTM D-150		3
Shear Strength	ASTM D-732	psi	11,200
Volume Resistivity	ASTM D-257	ohms/cm	>3.912E+15 Ω/cm
Flexural Strength	ASTM D-790	psi	14,700
Tensile Modulus of Elasticity		psi	465,000
Rockwell Hardness	ASTM D-785		M-100
Tensile Strength	ASTM D-638	psi	11,000
Dielectric Strength	ASTM D-149	volts/mil	354

Physical	TEST METHOD	UNITS	OPTIX-L
Light Transmission -Total	ASTM D-1003	%	92%
Water Absorption	ASTM D-570	% By wt	0.2
Light Transmission - Haze	ASTM D-1003	%	Less Than 1%
Optical Refractive Index	ASTM D-542		1.49
Specific Gravity/Relative Density	ASTM D-792		1.19