



OPTIX LUM 1 DIFFUSIVE SHEET

DESCRIPTION

OPTIX Lum 1 is a premium white acrylic sheet which provides both high transmission and excellent lamp hiding capabilities. The diffusion comes from a combination of a very fine surface texture and special diffusing additives.

OPTIX Lum 1 can be thermoformed and fabricated like other standard acrylic sheets.

APPLICATION

OPTIX Lum 1 is an excellent choice for those applications where lamp hiding and transmission efficiency are required.

NOTICE

Plaskolite assumes no responsibility for suitability of luminaires and applications. The use of lenses near and above 70°C temperatures with high UV output light sources will cause degradation of the material.

Material

Up-to-date and detailed material specifications can be found in the Resources section of our website at www.plaskolite.com

Ordering Information

For samples, pricing and delivery please call **800-848-9124**

Custom sizes available

Item No	Description	Thickness	Dimensions	Light Transmission (±3%)	Packaging
S84206-1	white acrylic	0.020"	50"x 50"	82%	500/pallet
S84214-1	white acrylic	0.040"	50"x 50"	72%	250/pallet
S84215-1	white acrylic	0.060"	50"x 50"	78%	200/pallet
S84216-1	white acrylic	0.080"	50"x 50"	72%	200/pallet
S84217-1	white acrylic	0.125"	50"x 50"	69%	125/pallet

Typical Properties

Property	ASTM Method	Units	Values
PHYSICAL			
Specific Gravity	D 792	-	1.19
Water Absorption	D 570	% By wt	0.4
MECHANICAL			
Tensile Strength	D 638	psi	11,030
Tensile Modulus of Elasticity	D 638	psi	490,000
Flexural Strength	D 790	psi	17,000
Izod Impact Strength, Molded Notch	D 256	ft-lb/in Notch	0.4
Rockwell Hardness	D 785	-	M-95
THERMAL			
Maximum Recommended Continuous Service Temperature	-	°F	170-190
Deflection Temperature, 264 psi	D 648	°F	203
Coefficient of Thermal Expansion	D 696	in/in/°F	3.0 x 10 ⁻⁵
Flammability (Burning Rate)	D 635	in/minute	1.0
Smoke Density Rating	D 2843	%	3.4
Self-Ignition Temperature	D 1929	°F	833

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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