OPTIX® LED SATIN LIGHTING DIFFUSOR

NEXT GENERATION OF LED DIFFUSION LENSES – FORMULATED FOR INTENSE LED LIGHTING

ELEGANT LINEAR ARCHITECTURAL LIGHTING PANELS WITH UNMATCHED TRANSMISSION AND DIFFUSION

- Enables narrower dimensions and thinner gauges while maintaining hiding power
- Matte textured surface on exposed side
- Colorless for highest light transmission, white for increased hiding power
- UL Certification: UL94HB, RTI90, F1 outdoor suitability
- 23.75" x 47.75" standard dimension: impact modified, custom dimensions and thickness also available upon request

OPTIX LED polymer equivalents available

Product	Color	Light Transmission	Half Angle	Available Thickness
OPTIX LED - Satin HDF	Colorless	92%*	22.4	.040 .060 .080 .118
OPTIX LED - Satin XDF	Colorless	85%*	TBD	.040 .080 .118
OPTIX LED - Satin WT2406	White	80%*	21.8	.040 .080 .118
OPTIX LED - Satin WT2406X	White	70%*	TBD	.040 .080 .118
OPTIX LED – Finecell WT	White	70%*	TBD	.020
OPTIX LED – 95***	Colorless	92%**	TBD	.118 .177
OPTIX LED – 95 WT2067***	White	70%**	TBD	.118

***coextruded

*Test conducted on .080" sample sizes
**Test conducted on .118" sample sizes

Light Transmission values conducted on Haze Gard Plus (BYK)

PLASKOLITE

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Properties

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	0-792		1.19
Optical Refractive Index	0-542		1.49
Sound Transmission	E 90 E 413	db	27
Water Absorption	0-570	% Bywt	0.4
Shrinkage	0 -702	%	<5

Mechanical Properties	ASTM Test Method	Units	Values
Tensile Strength		psi	11,030
Tensile Elongation - Max.	0-638	%	5.8
Tensile Modulus of Elasticity		psi	490,000
Flexural Strength		psi	17,000
Flexural Modulus of Elasticity		psi	490,000
Izod Impact Strength - Molded Notch	0-256	ft-lb/in Notch	0.4
Izod Impact Strength - Milled Notch	0-256	ft-lb/in Notch	0.28
Tensile Impact Strength	0-1822	ft-lb/in2	20
Abrasion Resistance Change in Haze			
0 Cycles	0-1044	Haze, %	0
10 Cycles	0-1044	Haze, %	11.2
50 Cycles	0-1044	Haze, %	24.0
200 Cycles	0-1044	Haze, %	24.9
Rockwell Hardness	0-785		M-95

Thermal Properties	ASTM Test Method	Units	Values
Maximum Recommended Continuous Service Temperature		OF	170-190
Softening Temperature		OF	210-220
Melting Temperature		OF	300-315
Deflection Temperature, 264 psi	0-648	OF	203
Deflection Temperature, 66 psi	0-648	OF	207
Coefficient of Thermal Expansion - 30 to 30°C	0-696	in/(in-°F) x 10^5	3.0
Thermal Conductivity	C-177	BTU-ft/ (hr- ft2-OF)	0.075
Flammability (Burning Rate)	0-635	In/minute	1.019
Smoke Density Rating	0 -2843	%	3.4
Self-Ignition Temperature	0-1929	OF	833
Flame Spread Index	E-84		115
Smoke Developed Index	E-84		550

Chemical Properties	ASTM Test Method	Units	Values
Resistance to Stress - Critical Crazing Stress to:			
Isopropyl Alcohol	ARTC modification of MIL-P- 6997	psi	900
Lacquer Thinner	ARTC modification of MIL-P- 6997	psi	500
Toluene	ARTC modification of MIL-P- 6997	psi	1,300
Solvesso 100	ARTC modification of MIL-P- 6997	psi	1,600