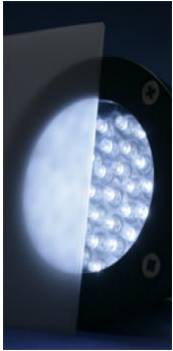


Optical Properties



LSD angle range FWHM	Circular	0.5° to 95°
	Elliptical minor	1° to 60°
	Elliptical major	10° to 95°
Transmission efficiency	Circular	0.2° to 20° ≥ 90 %
		20° to 80° ≥ 85 %
Angle Tolerance (based on a 10"x10" area)	Elliptical	≥ 85 %
	≤ 1°	± 0.5°
	1° < angle ≤ 10°	± 1°
Transmission spectral range	> 10°	± 10%
Brightness uniformity		400 nm to 1600 nm
Cosmetic defects		≥ 85 %
Temperature range		Sheets : max defect size is 1 mm per 12x12" area Rolls : being worked on. Not available at moment.
Refractive Index	PC=1.586	-30°C to 100°C@240 hrs Or – 40°C to 500°C
	AC=1.494	PE=1.51
Humidity		Epoxy=1.50
Pencil Hardness		>95% ± 5% RH@24hrs
Yellow index	Glass exposure (600hrs)	~ 2H
	Direct exposure (600hrs)	0.30%
Adhesion		2.60%
Laser Damage		100% (Crosshatched adhesion test ASTM-D3359)
		PC=0.22 J/cm ²
		PE=0.2 J/cm ²
Solvent Resistance		AC=0.17 J/cm ² @ 1064 nm, 10s pulse
		acetone, methanol, MEK, Windex®, gasoline, methylene chloride, and chloride bleach.

Note that all specifications contained herein are subject to change without notice