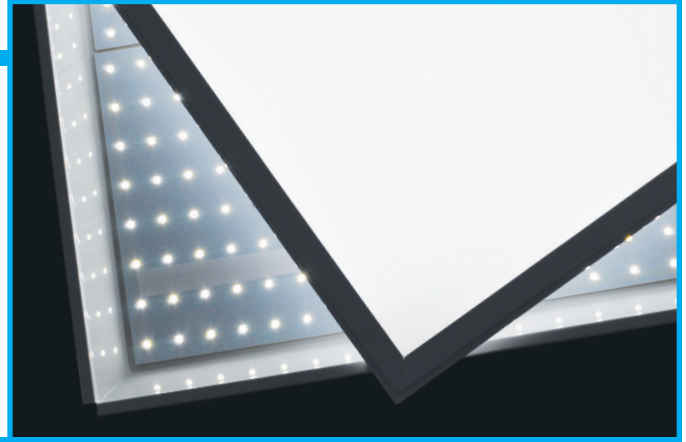




Makrolon® Lumen XT

Polycarbonate light diffuser sheet for LED fixtures

More light diffusion options from us mean fewer design problems for you



Multiple levels of light diffusion:

- Simplify design considerations for new fixtures and for retrofit conversions to LED's
- Choose the best option for different fixtures' performance requirements

New LW grades deliver even higher light transmission at equal light diffusion

- LW grades shift light to slightly warmer hue (lower Correlated Color Temperature, CCT) vs. LC grades

Advanced diffusion technology from Covestro:

- Provides hiding power for LED hot spots plus high light transmission
- Increases light uniformity throughout the lens

Plus: UL 94 V-2 flammability rating on all LUMEN XT grades

Diffusion and Transmission

Lumen XT Grade	DIFFUSION (FWHM, degrees)		% TRANSMISSION (ASTM D 1003)	
	0.060" thickness	0.118" thickness	0.060" thickness	0.118" thickness
LC0	14	13	91	90
LC3	38	53	90	85
LC5	53	77	88	77
LC7	86	135	79	62
LW3	38	53	93	90
LW5	53	77	90	81
LW7	86	135	82	67
LW9	146	166	73	55

Makrolon® Lumen XT

Polycarbonate light diffuser sheet

for design versatility and durability in LED fixtures

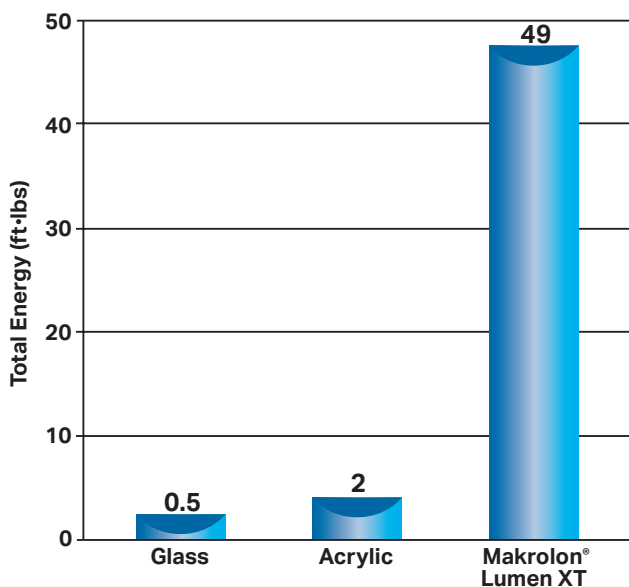
Superior toughness makes Makrolon Lumen XT ideal for:

- Safety and security applications
- Damage prone areas such as detention facilities, schools, and institutions

Makrolon Lumen XT's exceptional temperature resistance allows far more freedom in fixture design:

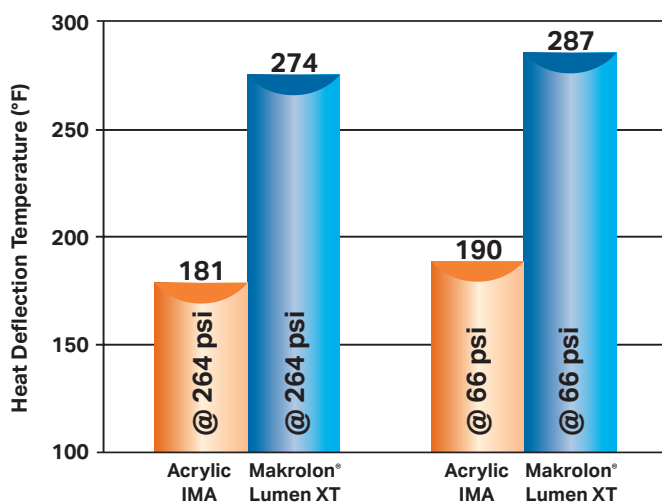
- LED's can be placed closer to the lens for thinner profile designs
- Higher temperature resistance minimizes risk of distortion due to temperature hot spots

Impact Resistance Comparison*



* Instrumented Impact per ASTM D 3763, sample thickness 0.118" nominal

Temperature Resistance Comparison



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Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

With respect to health, safety and environment precautions, the relevant Safety Data Sheets (SDS) and product labels must be observed prior to working with our products.