

## 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 Plaskolite:

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

#### Meets UL94 V-2 requirements

#### 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

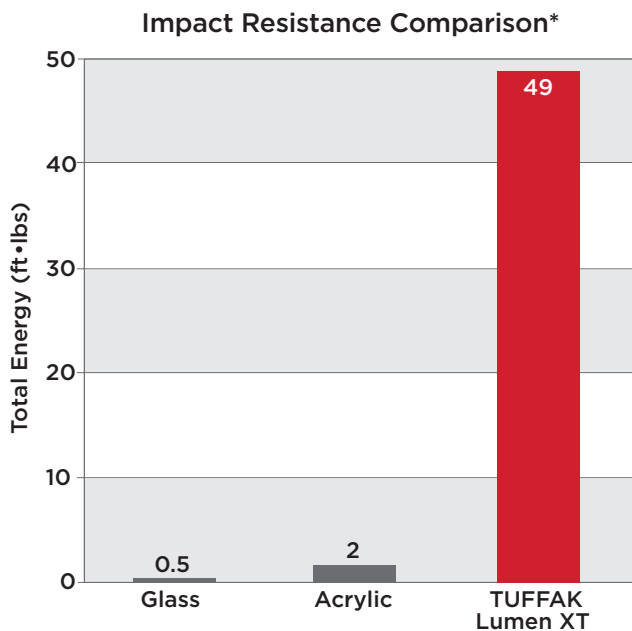
## TUFFAK LUMEN XT POLYCARBONATE LIGHT DIFFUSER SHEET FOR DESIGN VERSATILITY AND DURABILITY IN LED FIXTURES

Superior toughness makes TUFFAK Lumen XT ideal for:

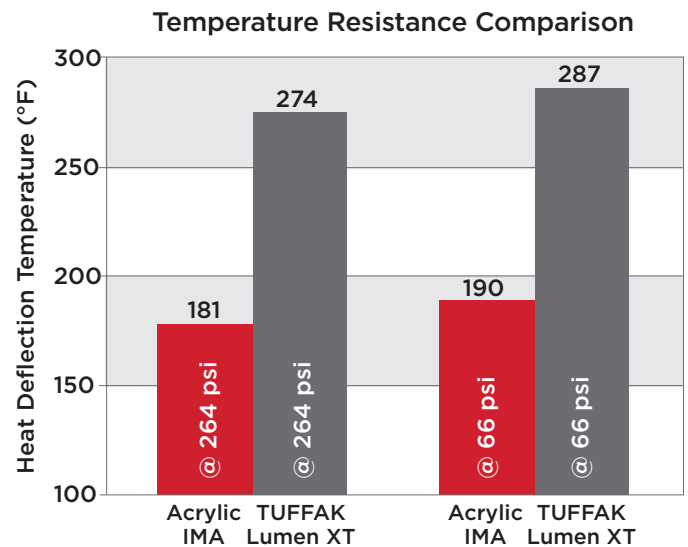
- » Safety and security applications
- » Damage prone areas such as detention facilities, schools, institutions and high traffic walkways

TUFFAK 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



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



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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