

CHEMISTRY THAT MATTERS™

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UNIQUE TRANSLUCENT SOLUTION FOR LED AND LIGHTING FIXTURES

WITH LEXAN™ DLCW DIFFUSER SHEET



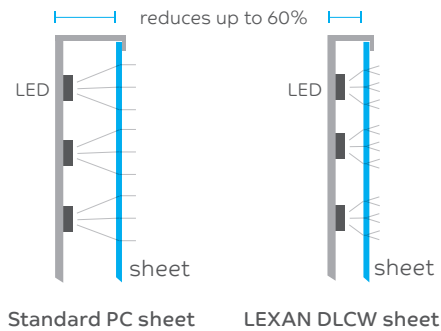


NEW LEXAN™ DLCW (Diffused Light Cool White) is a translucent polycarbonate sheet with unique light diffusing properties, mainly designed for LED and conventional lighting fixtures. It provides high light transmission (LT) and high hiding power (DLD) through a combination of optimized surface texture and advanced diffuser technology. The sheet has a matte finish on one side and a polish finish with masking film on the other side.

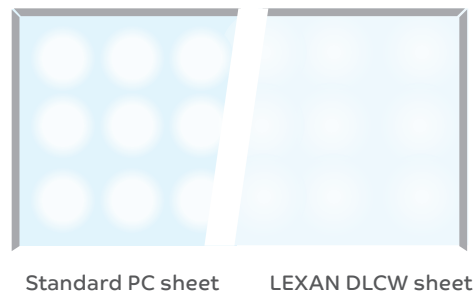
MAIN CHARACTERISTICS:

- Reduces customer construction and lowers installation and operation costs
- Allows placement of LED's closer to the diffuser, which saves valuable design space & costs
- Has exceptional light transmission which results in fewer required overall LED's
- Architectural design freedom
- High light diffusion and LED hiding power
- High impact strength for damage prone areas
- Increases the light uniformity throughout the lens
- Enhances uniformity with projected light

LIGHT BOX CONSTRUCTION:



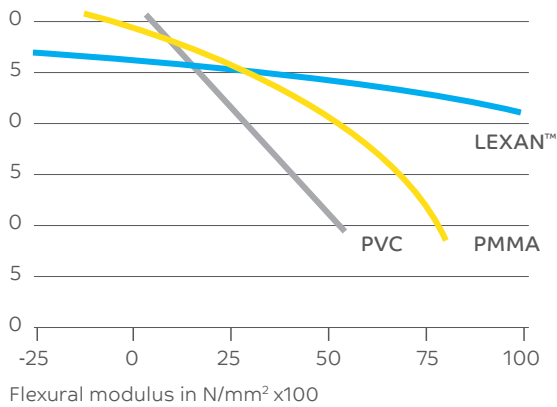
HIDING POWER:



APPLICATIONS:

- Lighting fixtures: commercial, industrial, institutional, retail, mass transportation and parking garages
- Lit displays
- Menu boards
- Skylights
- Flat signs
- Formed production signs
- Privacy partitions: offices, restaurants, exhibitions and schools

LEXAN™ DLCW SHEET PERFORMANCE AT ELEVATED TEMPERATURE:



PRODUCT FEATURES:

- Lightweight
- UL flammability – HB: [File nr E121562](#), UL F1 rating suitable for outdoor applications
- Thermoformable
- Tighter cold bending vs. acrylic sheet
- Minimum bending radius:
LEXAN DLCW Polycarbonate sheet = 100*thickness
Acrylic sheet = 125*thickness
- LEXAN DLCW sheet maintains its form and impact strength over a wide temperature range
- Excellent retention of impact strength
- Excellent retention of stiffness (does not droop at high temperatures)
- Retains 85% of its room temperature flexural modulus at 82°C (180°F), outperforms PMMA (Acrylic) and PVC

AVAILABILITY:

- Gauges: .040" to .125" (1 - 3.2 mm)

OPTICAL PERFORMANCE (LT/DLD*):

| Grade | | .040" | .060" | .118" | .125" |
|-------------------------|-------------|---------|---------|---------|---------|
| DLCW-1G9A3862X : 85% LT | % LT / DLD* | 85 / 23 | 85 / 26 | 85 / 27 | 85 / 28 |
| DLCW-1G9A3863X : 75% LT | % LT / DLD* | 75 / 35 | 75 / 33 | 75 / 33 | 75 / 30 |
| DLCW-1G8A3864X : 65% LT | % LT / DLD* | 65 / 70 | 65 / 60 | 65 / 60 | 65 / 60 |

*Degree of light diffusion (DLD): angle at which half of the luminance of the incident light is observed. Higher DLD, better hiding power. Typical values listed.



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