

Thread IN Shape

DONCHAMP® LUCENT LED OPAL

DONCHAMP® Lucent LED Opal is a premium light-diffusing acrylic designed specifically for LED illumination. Engineered for high light transmission, excellent luminance uniformity and superior diffusion, **DONCHAMP® Lucent LED Opal** eliminates hotspots and provides consistent, balanced illumination for signage, lightboxes and architectural lighting applications. Ideal for slimline LED systems, it offers outstanding optical performance, durability, weatherability and ease of fabrication.

KEY FEATURES

- No LED hot spots
- Better impact strength than glass
- Easily fabricated, thermoformed or polished
- High surface hardness
- Optimum light diffusion
- Chemical resistance to common acids
- Excellent weatherability

PRODUCT APPLICATIONS

- Slimline Illuminated signage
- Lightboxes
- Commercial & retail fitout
- Exterior & interior signage
- POS displays
- Lighting displays

COLOURS



Coloured swatch may not represent physical product.

PROPERTIES

GENERAL	RESULTS
Weight	3.54kg/m ²
Density	1.18g/cm ³
Cleaning: Warm soapy water & soft cloth	
MECHANICAL	
Tensile Strength (D538)	60-70Mpa
Flexural Strength (D7901)	90-110Mpa
Hardness: Rockwell (D785)	M90
THERMAL	
Operating Temperature Range	-30-80°C
Vicat Softening Temp (D1525)	≈100°C
Heat Deflection Temp (D648)	≈95°C
Co-Efficient of Thermal Expansion (ASTM D696)	7 x 10 ⁻⁵

PRODUCT RANGE

COLOUR	GAUGE	SIZE
LED Opal	3mm	2440x1220mm
Cut to size available upon request		

