

LEXAN® EXELL™ D POLYCARBONATE

LEXAN® EXELL™ D Polycarbonate is a transparent polycarbonate sheet with proprietary UV protection on both sides, offering excellent weathering properties. With its excellent impact resistance it is an ideal candidate for a wide variety of building and construction applications. It can easily be cold formed into gentle curves which makes it a good material choice for skylights, covered walkways, barrel vaults and more. It is thermoformable and can be thermoformed into the desired geometry whilst retaining the UV resistant protection.

KEY FEATURES

- Up to approximately 250 times the impact strength of glass
- UV protection both sides & weather-resistant
- Good clarity & resists yellowing
- Thermoformable & easily fabricated
- Lightweight yet rigid

PRODUCT APPLICATIONS

- Skylights
- Covered walkways
- Commercial spaces
- Security areas

COLOURS



Coloured swatch may not represent physical product.

PROPERTIES

PRODUCT RANGE

GENERAL		RESULTS	
Weight (3mm)	3.6kg/m ²		
Density	1.2g/cm ³		
Water Absorption (24hrs)	0.15-0.2%		
Moisture Absorption (Saturation)	0.5-0.6%		
Cleaning:	Warm soapy water & soft cloth		
MECHANICAL			
Tensile Strength	60-70MPa		
Flexural Strength	90-110MPa		
THERMAL			
Continuous Service Temperature	-40-120°C		
Vicat Softening Temperature	148-150°C		
Co-Efficient of Thermal Expansion	6.5x10 ⁻⁵ /°C		
Heat Deflection Temperature	125-135°C		
Thermal Conductivity (W/m·K)	0.19-0.22		

COLOUR	GAUGE	SIZE
Clear	3mm 6mm 9.5mm	2440x1220mm
	4.5mm	2440x1220mm 3050x2030mm
Cut to size available upon request		

