



POLYGUARD™ POLYCARBONATE

PolyGuard™ Polycarbonate is a high performing protective sheet designed for industries where safety, reliability and clarity are essential. Offering outstanding impact resistance, shatterproof performance and excellent transparency, **PolyGuard™ Polycarbonate** provides protection for machinery, production areas and public spaces.

KEY FEATURES

- Abrasion & chemical resistant
- 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

- Protection against vandalism
- Signage
- POS displays
- Machine guards
- Vending machine screens

COLOURS



Coloured swatch may not represent physical product.

PROPERTIES

PRODUCT RANGE

GENERAL		RESULTS
Weight (1mm)		1.2kg/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		
Max Continuous Service Temp		115-120°C
Vicat Softening Temperature		145-150°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 UV 2 Sides	1mm 1.5mm	2440x1220mm

