



## 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

GENERAL	RESULTS
Weight (1mm)	1.2kg/m <sup>2</sup>
Density	1.2g/cm <sup>3</sup>
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 <sup>-5</sup> /°C
Heat Deflection Temperature	125-135°C
Thermal Conductivity (W/m·K)	0.19-0.22

### PRODUCT RANGE

COLOUR	GAUGE	SIZE
Clear UV 2 Sides	1mm 1.5mm	2440x1220mm

