

Features

- Extreme impact strength
- Resistance to a wide range of temperatures
- Good fire rating
- The sheets offer protection against involuntary breakage and wilfull destruction.
- RS Pro Acrylic Polycarbonate Sheets can be thermoformed, coldcurved and machined with ease
- Clear polycarbonate provides up to 90% light transmission, matching or exceeding the transparency of standard glass.
- Temperature Tolerance: The material maintains its impact resistance even in extreme cold, remaining stable at temperatures as low as -100°C.
- The smooth surface is suitable for both screen printing and UV digital printing.
- Recyclable Acrylic

RS PRO Black Acrylic Polycarbonate Sheet,

L:500MM X W:500MM X T:5MM

RS Stock No: 0794147



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO Acrylic Polycarbonate Sheet

Rs Pro Acrylic Polycarbonate are a range of high-performance thermoplastic sheets known for their extreme impact resistance (250 times higher than glass), high optical clarity, and ability to withstand temperatures from -100 °C to +120 °C

Key Features:

- *Lightweight Construction: Polycarbonate sheets are approximately half the weight of glass of the same thickness, simplifying handling and installation.*
- *Extreme Impact Strength: These sheets are 250 times stronger than glass, making them suitable for high-security applications like riot shields and safety glazing.*
- *Glossy Finish: The sheets feature a high-quality glossy/glossy surface*
- *Low Haze: Maintains a haze level of <0.5% on colourless material*

Applications:

- *Machine guards*
- *Lighting fixtures*
- *Noise Barriers: Used in manufacturing facilities and along roadways to reduce sound transmission without obstructing views*
- *Exhibitions: Used in the fabrication of exhibition stands and display cases in museums and galleries for its clarity and lightweight nature.*
- *Furniture: A popular material for high-end tables, chairs, shelving, and cabinet fronts.*
- *Kitchen & Bathroom: Applied as sleek, grout-free splashbacks and water-resistant shower wall panels.*
- *Found in vehicle windshields, dashboards, and instrument panels where impact resistance is required.*
- *Glazing: Acts as a durable, shatter-resistant alternative to glass for skylights, secondary windows, and temporary glazing.*

General Specifications

Material	Acrylic Polycarbonate
Form	Sheet
Grade	Polymethyl Methacrylate
Colour	Black
Length	500MM
Width	500MM
Thickness	5MM

Plastic Sheets

Mechanical Specifications

Tensile Strength	76MPa
Density	1.19g/cm³
Impact Strength	12 KJ/m²
Rockwell Hardness (M scale)	100
Modulus of Elasticity	3300 MPa
Compressive Yield Stress	130 MPa

Similar Products

RS Code	Form	Dimensions	Colour	Thickness
0794140	Sheet	500MM x 500MM	Clear	3MM
0794141	Sheet	500MM x 500MM	Clear	4MM
0794142	Sheet	500MM x 500MM	Clear	5MM
0794144	Sheet	500MM x 500MM	White	3MM
0794145	Sheet	500MM x 500MM	White	5MM
0794146	Sheet	500MM x 500MM	Black	3MM
0794148	Sheet	500MM x 500MM	Red	3MM
0794149	Sheet	1000MM x 1000MM	Clear	3MM
0794150	Sheet	1000MM x 1000MM	Clear	4MM
0794151	Sheet	1000MM x 1000MM	Clear	5MM
0794152	Sheet	1000MM x 1000MM	White	3MM
0794153	Sheet	1000MM x 1000MM	White	5MM
0794154	Sheet	1000MM x 1000MM	Black	3MM
0794155	Sheet	1000MM x 1000MM	Black	5MM
0794156	Sheet	1000MM x 1000MM	Red	3MM