

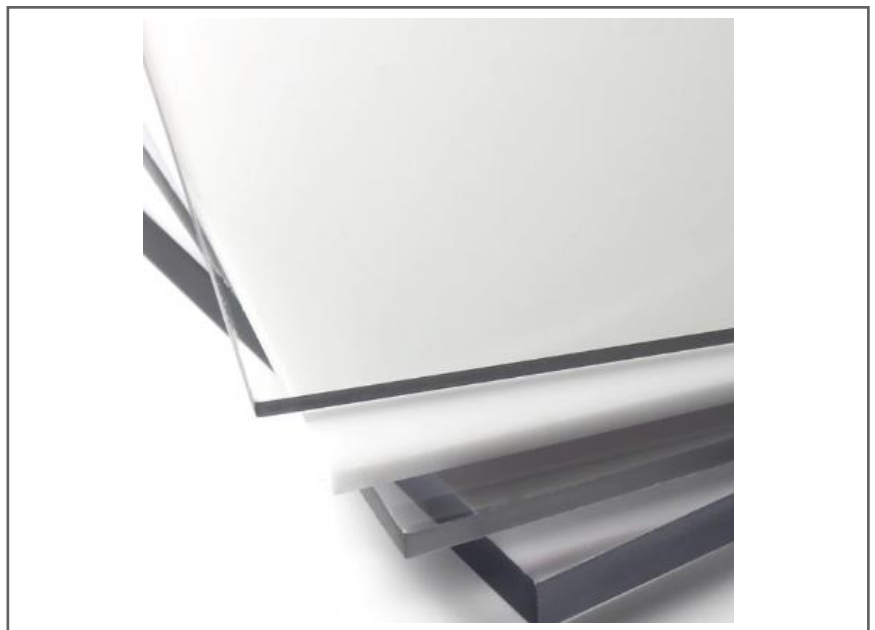
## Features

- 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 White Acrylic Polycarbonate Sheet,

**L:500MM X W:500MM X T:3MM**

RS Stock No: 0794144



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

|                  |                         |
|------------------|-------------------------|
| <b>Material</b>  | Acrylic Polycarbonate   |
| <b>Form</b>      | Sheet                   |
| <b>Grade</b>     | Polymethyl Methacrylate |
| <b>Colour</b>    | White                   |
| <b>Length</b>    | 500MM                   |
| <b>Width</b>     | 500MM                   |
| <b>Thickness</b> | 3MM                     |

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       |
| 0794145 | Sheet | 500MM x 500MM   | White  | 5MM       |
| 0794146 | Sheet | 500MM x 500MM   | Black  | 3MM       |
| 0794147 | Sheet | 500MM x 500MM   | Black  | 5MM       |
| 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       |