

## FEATURES

- Excellent impact strength
- Excellent dimensional stability with a high capacity to maintain its original dimensions when subjected to changes in temperature and humidity
- Rigidity over a wide range of temperatures
- Pliable and flexible
- Moderate chemical resistance and low solvent resistance
- Translucent
- Good heat resistance
- Good insulation properties
- Good machinability
- Easy to polish, weldable and bondable using glue

## Clear Plastic Sheet, 2050mm x 1250mm x 6mm

RS Stock No.: 258-6663



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

From RS Pro a range of high-quality polycarbonate translucent solid plastic sheets available in a range of sizes and thicknesses

### General Specifications

<b>Form</b>	Solid
<b>Colour</b>	Clear
<b>Material</b>	Polycarbonate
<b>Laminated</b>	Yes
<b>Laminated Material</b>	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
<b>Flammability Rating</b>	UL 94 V-0
<b>Polymer Type</b>	Copolymer
<b>Finish</b>	Clear
<b>Adhesive Backing</b>	Yes
<b>Applications</b>	Medical devices, Electronic components, Automotive components, Electrical cases and covers, Digital Disks (CDs, DVDs, and Blu-ray), Machine guards and protective screens, Signage and displays

### Electrical Specifications

<b>Specific Surface Resistance</b>	$10^{14} \Omega$
<b>Specific Volume Resistance</b>	$10^{14} \Omega \cdot \text{cm}$
<b>Dielectric Constant</b>	2.9
<b>Dielectric Loss Factor</b>	0.0017tg
<b>Breakdown Voltage</b>	17kV/mm

### Mechanical Specifications

Length	2050mm
Width	1250mm
Thickness	6mm
Density	1.2g/cm <sup>3</sup>
Tensile Strength	62MPa
Hardness	R 118 Rockwell
Water absorption	0.35%
Thermal Conductivity	0.25W/m.K
Elongation	70%
Impact Strength	12kJM <sup>-2</sup>
Modulus Of Elasticity	4200MPa
Flexural Strength	175MPa
Compression Strength	23MPa
Compression Modulus	3400MPa
Ball Indentation Hardness	253MPa
Thermal Expansion	5x10 <sup>-5</sup> k <sup>-1</sup>
Specific Heat	1.1J/(g.K)
Specific Gravity	1.38
Flexural Modulus	2600MPa
Friction Coefficient	0.54
Poisson Ratio	0.38kJM <sup>-2</sup>

### Operation Environment Specifications

Maximum Operating Temperature	120°C
Melting Point	255°C
Glass Transition Temperature	150°C
Vicat Softening Point	65°C

### Approvals

Compliance/Certifications	CE / UR / cUR
Standards Met	DIN 50014