

## FEATURES

- Resistance to many types of acids/alkalis of medium concentration
- A good electrical insulator
- Max Long Term Service Temperature 150°C
- A flammability rating of UL 94HB

## White Plastic Sheet, 1220mm x 610mm x 3mm

RS Stock No.: 681609



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, comes a range of high-quality ABS (Acrylonitrile Butadiene Styrene) sheet. These rigid thermoplastic sheets are manufactured to industry standards, have high impact resistance and excellent thermal forming properties

## General Specifications

<b>Form</b>	Solid
<b>Colour</b>	White
<b>Material</b>	ABS
<b>Laminated</b>	Yes
<b>Laminated Material</b>	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
<b>Flammability Rating</b>	UL 94 HB
<b>Polymer Type</b>	Copolymer
<b>Finish</b>	Clear
<b>Adhesive Backing</b>	Yes
<b>Applications</b>	ABS sheets have an array of application use such as; Refrigeration industry, 3D Building Materials, Pipes and fittings, Automotive industry, Vacuum Construction, Machine Prototype Construction

## Electrical Specifications

<b>Specific Surface Resistance</b>	$10^{14} \Omega$
<b>Specific Volume Resistance</b>	$10^{13} \Omega \cdot \text{cm}$
<b>Dielectric Constant</b>	2.9
<b>Dielectric Loss Factor</b>	0.0017tg
<b>Breakdown Voltage</b>	17kV/mm
<b>Dielectric Strength 23°C, 50% r.h.</b>	49kV/mm

### Mechanical Specifications

<b>Length</b>	1220mm
<b>Width</b>	610mm
<b>Thickness</b>	3mm
<b>Density</b>	1.41g/cm <sup>3</sup>
<b>Tensile Strength</b>	50Mpa
<b>Hardness</b>	M 90 Rockwell
<b>Water absorption</b>	0.7%
<b>Thermal Conductivity</b>	0.17W/m.K
<b>Elongation</b>	20%
<b>Impact Strength</b>	12kJM <sup>-2</sup>
<b>Modulus Of Elasticity</b>	2500Mpa
<b>Flexural Strength</b>	91Mpa
<b>Compression Strength</b>	20Mpa
<b>Compression Modulus</b>	2300Mpa
<b>Ball Indentation Hardness</b>	165Mpa
<b>Thermal Expansion</b>	8x10 <sup>-5</sup> k <sup>-1</sup>
<b>Specific Heat</b>	1.1J/(g.K)
<b>Specific Gravity</b>	1.38
<b>Flexural Modulus</b>	2600Mpa
<b>Friction Coefficient</b>	0.54
<b>Poisson Ratio</b>	0.38kJM <sup>-2</sup>

### Operation Environment Specifications

<b>Maximum Operating Temperature</b>	75°C
<b>Melting Point</b>	255°C
<b>Glass Transition Temperature</b>	-60°C
<b>Vicat Softening Point</b>	65°C

### Approvals

<b>Compliance/Certifications</b>	CE / UR / cUR
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