

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 4.5mm

RS Stock No.: 681615



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

Form	Solid
Colour	White
Material	ABS
Laminated	Yes
Laminated Material	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
Flammability Rating	UL 94 HB
Polymer Type	Copolymer
Finish	Clear
Adhesive Backing	Yes
Applications	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

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

Mechanical Specifications

Length	1220mm
Width	610mm
Thickness	4.5mm
Density	1.41g/cm ³
Tensile Strength	50Mpa
Hardness	M 90 Rockwell
Water absorption	0.7%
Thermal Conductivity	0.17W/m.K
Elongation	20%
Impact Strength	12kJM ⁻²
Modulus Of Elasticity	2500Mpa
Flexural Strength	91Mpa
Compression Strength	20Mpa
Compression Modulus	2300Mpa
Ball Indentation Hardness	165Mpa
Thermal Expansion	8x10 ⁻⁵ k ⁻¹
Specific Heat	1.1J/(g.K)
Specific Gravity	1.38
Flexural Modulus	2600Mpa
Friction Coefficient	0.54
Poisson Ratio	0.38kJM ⁻²

Operation Environment Specifications

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

Approvals

Compliance/Certifications	CE / UR / cUR
----------------------------------	---------------