

FEATURES

- Strong, tough and rigid
- Low moisture absorption, this reduces likelihood of distortion or expansion during machining
- Excellent dimensional stability. (This is the degree to which a material maintains its original dimensions when subjected to changes in temperature and humidity).
- Hot water resistant
- Good chemical resistance
- Resistant to dilute acids, cleaning agents and many solvents
- Good sliding properties
- Low friction with good wear resistance

White Plastic Sheet, 500mm x 300mm x 30mm

RS Stock No.: 139-596



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 Acetal solid plastic sheets natural in colour and available in a range of sizes and thicknesses

General Specifications

Form	Solid
Colour	White
Material	Acetal
Laminated	Yes
Laminated Material	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
Flammability Rating	UL 94 HB
Polymer Type	Copolymer
Finish	Mirror
Adhesive Backing	Yes
Applications	Components that are manufactured from this plastic include the following; Household appliances, Friction bearings, Gears, Tool supports, Housing parts, Rollers, Friction Strips, Plugs, Insulators, Agitators and kneading elements, Seals

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	500mm
Width	300mm
Thickness	30mm
Density	1.41g/cm ³
Tensile Strength	60Pa
Hardness	M 86 Rockwell
Water absorption	0.5%
Thermal Conductivity	0.17W/m.K
Elongation	40%
Impact Strength	12kJM ⁻²
Modulus Of Elasticity	2800MPa
Flexural Strength	91MPa
Compression Strength	20MPa
Compression Modulus	2300MPa
Ball Indentation Hardness	165MPa
Thermal Expansion	5x10 ⁻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	100°C
Melting Point	255°C
Glass Transition Temperature	-60°C
Vicat Softening Point	65°C

Approvals

Compliance/Certifications	CE / UR / cUR
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