

FEATURES

- Good rigidity and hardness
- Good slide and low frictional properties
- Good abrasion and impact resistance
- Outstanding wear resistance
- Resistant to many chemicals, oils, greases and fuels
- Very good temperature resistance
- Good thermal dimensional stability
- Electrically insulating
- Weldable and bondable

White Plastic Sheet, 500mm x 305mm x 5mm

RS Stock No.: 408-3936



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 natural coloured Nylon 66 solid plastic sheets available in a range of sizes and thicknesses

General Specifications

Form	Solid
Colour	White
Material	Nylon
Laminated	Yes
Laminated Material	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
Flammability Rating	UL HB
Polymer Type	Copolymer
Finish	Clear
Adhesive Backing	Yes
Applications	Gear wheels and Cam discs, Friction strips and bearings, Bushes and spindle nuts, Piston guides, Castors, Impact plates and damping plates, Conveyor screws, Rope pulleys, Plug parts

Electrical Specifications

Specific Surface Resistance	$10^{14} \Omega$
Specific Volume Resistance	$10^{14} \Omega \cdot \text{cm}$
Dielectric Constant	2.9
Dielectric Loss Factor	0.0017tg
Breakdown Voltage	38kV/mm

Mechanical Specifications

Length	500mm
Width	305mm
Thickness	5mm
Density	1.14g/cm ³
Tensile Strength	60 (Wet) MPa, 80 (Dry) MPa
Hardness	50 Ball Indentation
Water absorption	8.5%
Thermal Conductivity	0.36W/m.K
Elongation	150%
Impact Strength	12kJM ⁻²
Modulus Of Elasticity	3500MPa
Flexural Strength	175MPa
Compression Strength	23MPa
Compression Modulus	3400MPa
Ball Indentation Hardness	253MPa
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	170°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

