

FEATURES

- Maximum operating temperature of +160 °C
- Resistance to oils, grease, petrol
- Easily welded
- Ultraviolet and weather resistance

Black Plastic Sheet, 500mm x 300mm x 10mm

RS Stock No.: 282-0733



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 nylon sheets. Manufactured to industry standards and being UL 94 HB flame resistance, these sheets are of high quality and are great value

General Specifications

Form	Solid
Colour	Black
Material	Nylon
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	Nylon has an array of application use such as; Industrial, Automotive, Electronics

Electrical Specifications

Specific Surface Resistance	$10^{16} \Omega$
Specific Volume Resistance	$10^{17} \Omega \cdot \text{cm}$
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	10mm
Density	1.14g/cm ³
Tensile Strength	75Mpa
Hardness	M 88 Rockwell
Water absorption	8 to 9%
Thermal Conductivity	0.17W/m.K
Elongation	25%
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	160°C
Melting Point	255°C
Glass Transition Temperature	-60°C
Vicat Softening Point	65°C

Approvals

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