

FEATURES

- **Maximum operating temperature of +90 °C and +100 °C offered in this range**
- **Flammability rating of UL 94 HB**
- **Excellent resistance to cold and stress cracking, shock, abrasion and chemical**
- **Very good electrical insulation properties**

White Plastic Sheet, 1000mm x 500mm x 10mm

RS Stock No.: 680-599



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 the trusted brand RS PRO, comes a range of white polyethylene sheets. Manufactured to industry standards, these sheets are of high quality and are great value

General Specifications

Form	Solid
Colour	White
Material	PE-UHMW
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	Polyethylene has an array of application use such as; Chemical apparatus, Plugs, Seals, Food processing, Insulators, and low load rollers

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	1000mm
Width	500mm
Thickness	10mm
Density	0.95 to 0.96g/cm ³
Tensile Strength	25MPa
Hardness	50Ball Indentation
Water absorption	0.02%
Thermal Conductivity	0.17W/m.K
Elongation	350%
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	90°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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