

FEATURES

- **Maximum operating temperature of +70 °C**
- **High impact and weather resistance**
- **Machinable and easy to weld**
- **Available in a variety of different sizes**

Clear Plastic Sheet, 500mm x 400mm x 2mm

RS Stock No.: 824-496



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 extruded acrylic sheets, Manufactured to industry standards, these sheets are of great value

General Specifications

Form	Solid
Colour	Clear
Material	Extruded Acrylic
Laminated	Yes
Laminated Material	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
Flammability Rating	UL 94 V-0
Polymer Type	Copolymer
Finish	Clear
Adhesive Backing	Yes
Applications	Applications include the following; POS signs and displays, Advertising displays, Brochure holders, Display cases, Lighting and light boxes, Office screens and dividers, Glazing

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	400mm
Thickness	2mm
Density	1.41g/cm ³
Tensile Strength	65Mpa
Hardness	M90 Rockwell
Water absorption	0.005%
Thermal Conductivity	0.17W/m.K
Elongation	50%
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
Elongation at Break	1.41

Operation Environment Specifications

Maximum Operating Temperature	70°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

