

## FEATURES

- Maximum operating temperature of +60 °C
- Excellent resistance to most chemicals
- Easily fabricated and machined
- 0.2 % water absorption
- Available in different sizes
- Available from 1mm to 25mm thickness

# Grey Plastic Sheet, 1000mm x 500mm x 4.5mm

RS Stock No.: 680-757



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 grey PVC sheets. Manufactured to industry standards and being UL DIN 4102 B1 flame resistance, these sheets are of high quality and are great value

### General Specifications

<b>Form</b>	Solid
<b>Colour</b>	Grey
<b>Material</b>	PVC
<b>Laminated</b>	Yes
<b>Laminated Material</b>	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
<b>Flammability Rating</b>	DIN 4102 B1
<b>Polymer Type</b>	Copolymer
<b>Finish</b>	Mirror
<b>Adhesive Backing</b>	Yes
<b>Applications</b>	These PVC sheet have an array of application use such as; Chemical plant-tanks, Electrical components, Valves and pumps

### Electrical Specifications

<b>Specific Surface Resistance</b>	$10^{14} \Omega$
<b>Specific Volume Resistance</b>	$10^{13} \Omega \cdot \text{cm}$
<b>Dielectric Constant</b>	2.9
<b>Dielectric Loss Factor</b>	0.0017tg
<b>Breakdown Voltage</b>	17kV/mm
<b>Dielectric Strength 23°C, 50% r.h.</b>	49kV/mm

### Mechanical Specifications

Length	1000mm
Width	500mm
Thickness	4.5mm
Density	1.47g/cm <sup>3</sup>
Tensile Strength	55MPa
Hardness	Shore D 65 to 80
Water absorption	0.2%
Thermal Conductivity	0.18W/m.K
Elongation	20%
Impact Strength	12kJM <sup>-2</sup>
Modulus Of Elasticity	2500MPa
Flexural Strength	91MPa
Compression Strength	20MPa
Compression Modulus	2300MPa
Ball Indentation Hardness	165MPa
Thermal Expansion	8x10 <sup>-5</sup> k <sup>-1</sup>
Specific Heat	1.1J/(g.K)
Specific Gravity	1.38
Flexural Modulus	2600MPa
Friction Coefficient	0.54
Poisson Ratio	0.38kJM <sup>-2</sup>

### Operation Environment Specifications

Maximum Operating Temperature	60°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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