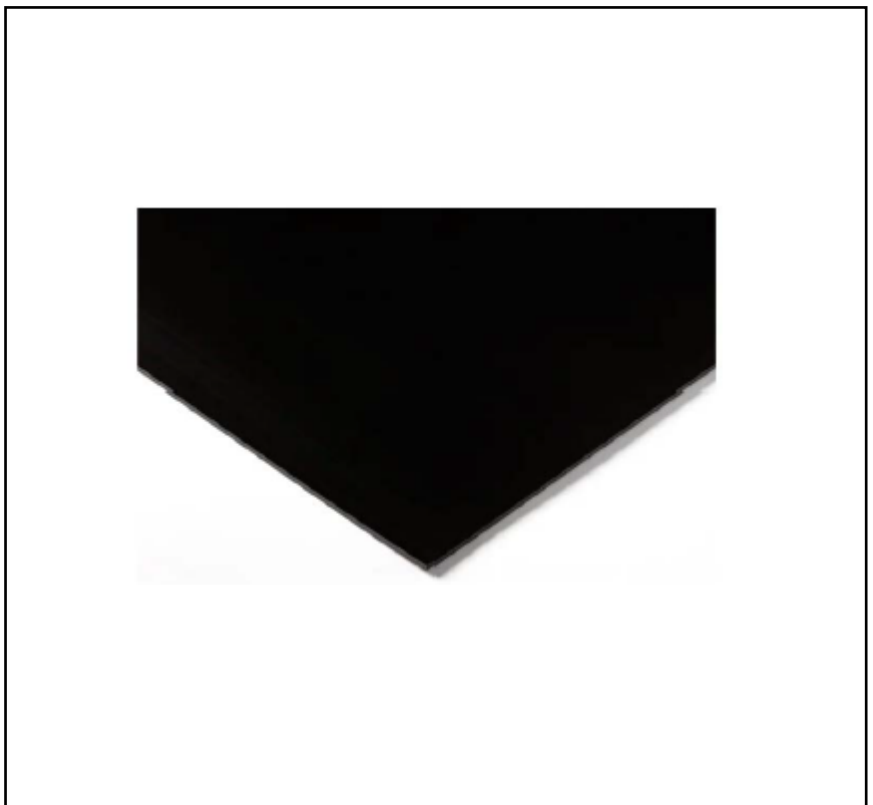


## Features

- Maximum operating temperature of +90 °C
- Flammability rating of UL 94 HB
- Resistant to dilute acids, cleaning agents and numerous solvents
- Very good electrical insulation properties

## RS PRO Black Plastic Sheet, 1000mm x 500mm x 10mm

RS Stock No.: 408-3841



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 black polyethylene sheets. Manufactured to industry standards and featuring 50 Ball Indentation hardness, these sheets are of high quality and are great value*

## General Specifications

Form	Solid
Colour	Black
Material	HDPE
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	Polyethelene has an array of application use such as; Chemical apparatus, Plugs, Seals, Food processing, Insulators, and low load rollers

## Mechanical Specifications

Length	1000mm
Width	500mm
Thickness	10mm
Density	0.95 to 0.96g/cm3
Tensile Strength	25MPa
Hardness	50 Ball Indentation
Water absorption	0.02%
Thermal Conductivity	0.17W/m.K

Elongation	50%
Impact Strength	12kJM-2
Modulus Of Elasticity	2800MPa
Flexural Strength	175MPa
Compression Strength	23MPa
Compression Modulus	3400MPa
Ball Indentation Hardness	253MPa
Thermal Expansion	5x10-5k-1
Specific Heat	1.1J/(g.K)
Specific Gravity	1.38
Flexural Modulus	2600MPa
Friction Coefficient	0.54
Poisson Ratio	0.38kJM-2

## Electrical Specifications

Specific Surface Resistance	1014 Ω
Specific Volume Resistance	1014 Ω.cm
Dielectric Constant	2.9
Dielectric Loss Factor	0.0017tg
Breakdown Voltage	38kV/mm

## Operation Environment Specifications

Maximum Operating Temperature	90°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