

FEATURES

- Tough transparent thermoplastic polyester with high impact strength and very good optical clarity
- Very good chemical resistance
- Easily screen printed/vacuum formed
- High impact strength even at -29°C
- FDA approved for food and drug use
- Easy to weld
- Flammability rating UL 94 class HB

Clear Plastic Sheet, 2050mm x 1250mm x 1mm

RS Stock No.: 704-8223



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 a range of high-quality polycarbonate translucent solid plastic sheets available in a range of sizes and thicknesses

General Specifications

Form	Solid
Colour	Clear
Material	Polycarbonate
Laminated	Yes
Laminated Material	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
Flammability Rating	UL 94 HB
Polymer Type	Copolymer, Homopolymer
Finish	Clear
Adhesive Backing	Yes
Applications	Machine guards, Protective screens, Signage, Displays, Illuminated signage, Poster covers

Electrical Specifications

Specific Surface Resistance	$10^{14} \Omega$
Specific Volume Resistance	$10^{14} \Omega \cdot \text{cm}$
Dielectric Constant	2.9
Dielectric Loss Factor	0.0017tg
Breakdown Voltage	38kV/mm

Mechanical Specifications

Length	2050mm
Width	1250mm
Thickness	1mm
Density	1.2g/cm ³
Tensile Strength	62 MPa
Hardness	R 118 Rockwell
Water absorption	0.35%
Thermal Conductivity	0.17W/m.K
Elongation	70%
Impact Strength	12kJM ⁻²
Modulus Of Elasticity	3500MPa
Flexural Strength	175MPa
Compression Strength	23MPa
Compression Modulus	3400MPa
Ball Indentation Hardness	253MPa
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	120°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