

FEATURES

- Resistance to harsh chemicals including wide range of acids and base
- High performance in hydrocarbons (natural gas and fuels) and organic solvents
- Resistance to hydrolysis (chemical breakdown in water) with a low water absorption and permeability
- High creep resistance (creep is the tendency of a solid material to move slowly or deform permanently under the influence of mechanical stresses)
- Resistant to stream, water and sea water
- High mechanical and tensile strength
- High stress cracking resistance
- Excellent slide and wear properties
- Good electrical insulation properties

Beige Plastic Sheet, 500mm x 50mm x 12mm

RS Stock No.: 129-836



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 PEEK polymer solid plastic sheets available in a range of sizes and thicknesses

General Specifications

Form	Solid
Colour	Beige
Material	PEEK
Laminated	Yes
Laminated Material	Acrylic; Epoxy Resin; Fine Weave Cotton; Glass Fibre
Flammability Rating	UL 94 V-0
Polymer Type	Copolymer; Homopolymer
Finish	Mirror
Adhesive Backing	Yes
Applications	Components that can be manufactured from this plastic include the following: Friction bearings, Piston Parts, Pump housings and metering pumps, Bushes, Compressor plate valves, Cable Insulation, Light mountings, Ball valve seals, Wafer supports, Plug parts

Electrical Specifications

Specific Surface Resistance	10 ¹⁴ Ω
Specific Volume Resistance	10 ¹⁴ Ω.cm
Dielectric Constant	2.9
Dielectric Loss Factor	0.0017tg
Breakdown Voltage	17kV/mm



Mechanical Specifications

-ength 50	00mm
Width 50	0mm
Thickness 12	2mm
Density 1.	.32g/cm ³
Tensile Strength 95	5MPa
Hardness M	l 99 Rockwell
Water absorption 0.	.5%
Thermal Conductivity 0.	.17W/m.K
Elongation 25	5%
mpact Strength 12	2kJM ⁻²
Modulus Of Elasticity 42	200MPa
Flexural Strength 17	75MPa
Compression Strength 23	3MPa
Compression Modulus 34	400MPa
Ball Indentation Hardness 25	53MPa
Thermal Expansion 59	x10 ⁻⁵ k ⁻¹
Specific Heat 1.	.1J/(g.K)
Specific Gravity 1.	.38
Flexural Modulus 26	600MPa
Friction Coefficient 0.	.54
	.38kJM ⁻²

Operation Environment Specifications

Maximum Operating Temperature	300°C
Melting Point	255°C
Glass Transition Temperature	150°C
Vicat Softening Point	65°C

Approvals

Compliance/Certifications	CE / UR / cUR



