



Material: Acrylic

More commonly known as Plexiglass® or Perspex®. Acrylic is a great transparent display material with good mechanical strength, tensile strength and hardness and is easy to polish. It has good temperature resistance and UV stability with low water absorption and good insulation properties. Also offering low impact and chemical resistance. Available in both cast and extruded forms.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Transparent/Colours
Density	ISO 1183	g/cm ³	1.18
Water Absorption	DIN 53495	%	0.3
Service Temp Upper	-	°c	75-90
Service Temp Lower	-	°c	-40
Tensile strength at yield	ISO 527	MPa	70
Elongation at break	ISO 527	%	5
Impact Strength	ISO 179	kJ/m ²	15
Notched Impact Strength	ISO 179	kJ/m ²	1.5
Rockwell hardness	ISO 2039-1	MPa	185
Elastic modulus	ISO 527	MPa	3300
Vicat Softening temp VST/B/50	ISO 306	°c	100
Heat Deflection temp HDT/B	ISO 75	°c	95
Linear thermal expansion coefficient	DIN 53752	K ⁻¹ x10 ⁻⁴	0.7
Thermal Conductivity at 20°c	DIN 52612	W/(Km)	0.19
Volume Resistivity	VDE 0303	Ohm/cm	=10 ¹⁵
Surface Resistance	VDE 0303	Ohm	=10 ¹⁵
Dielectric Constant @ 1MHZ	DIN 53483	-	2.9
Dielectric loss factor @ 1MHZ	DIN 53483	-	0.03
Dielectric Strength	VDE 303	kV/mm	30
Tracking Resistance	DIN 53480	-	KC>600
Bondability	-	-	Yes
Physiology indifference	FDA	-	Yes
Friction Coefficient	DIN 53375	-	0.55
Flammability	UL94	-	HB

Availability:

Available in: Sheet, rod, tube and bar.

Colours: Mirrored, High impact, Frosted, Whites and Opals, Metallic, Perlescent options.

Please call for further details.

Applications:

Display, advertisement, point of sale, food industry, light diffusers.

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The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.