

Acrystar Acrylic Product Details

Typical Property Values

General Properties	Test Method	Units	Acrystar
Relative Density	ISO 1183	g/cm ³	1.19
Water Absorption	ISO 62	%	0.3

Mechanical Properties

Tensile Strength @23°C	ISO 527	MPa	70
Elongation at Break @23°C	ISO 527	%	4
Flexural Strength	ISO 178	MPa	114
Flexural Modulus	ISO 178	MPa	3200
Impact Strength - Charpy-unnotched	ISO 179 / I fu	kJ.m ⁻²	12
Izod Impact Strength, notched	ISO 180/ I A	kJ.m ⁻²	1.4
Rockwell Hardness	ISO 2039-2	M scale	100

Thermal Properties

Vicat Softening Point	ISO 306 A	°C	>110
Coefficient of Thermal - Expansion-Linear	ASTM D696	x 10 ⁻⁵ . K ⁻¹	7
Flammability UL94 HB	UL94		HB

Optical Properties

Light Transmission	ASTM D1003	% (3 mm)	>92
Refractive Index	ISO 489 A		1.49

Electrical Properties

Surface Resistivity	IEC 93	Ω	> 10 ¹⁴
Electrical Strength	IEC 243	kV/mm	30

Note:

The standards values quoted are not always strictly equivalent and based on tests on representative samples. The information given in this publication is based on our general experience and given in good faith. It is intended as a general guide and must not be considered as a binding specification. No warranty is given or is to be implied.

