

Acrycast® Optical Grade is a selected Cast Acrylic Sheet produced under special observed conditions to accommodate the needs of special applications.

Acrycast® Optical Grade is produced from virgin MMA, filtered through very close meshed filters. Finally this sheet will be inspected individually to fulfill the high optical expectations.

These sheets are available in clear from 3 - 10mm



Test Method	Units	Acrycast® Optical Grade
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General Properties

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	95

Thermal Properties

Vicat Softening Point	ISO 306 A	°C	>110
Coefficient of Thermal - Expansion-Linear	ASTM D696	x10 ⁻⁵ K ⁻¹	7
Flammability UL94 HB	UL94		HB

Optical Properties

Light Transmission	ASTM D1003	°C	>92
Refractive Index	ISO 489 A		1,49

Electrical Properties

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

Note:

The standard values quoted are not always strictly equivalent and are based on tests of representative samples.

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