

Cast Acrylic Sheet
TECHNICAL DATA SHEET

GENERAL PROPERTIES

	Method	Unit	Value
Density	ISO 1183-1	gr/cm ³	1,19
Water absorption	ISO 62	%	0.5
Rockwell hardness	ISO 2039-2	M scale	103±0,4

MECHANICAL PROPERTIES

Tensile modulus	ISO 527-2/1B/1	MPa	3065
Tensile strenght	ISO 527-2/1B/5	MPa	78,1
Elongation	ISO 527-2/1B/5	%	4,2
Flexural modulus	ISO 178	MPa	3610
Flexural strenght	ISO 178	MPa	127,8
Impact Resistance			
Izod- unnotched	ISO 180/U1	Kj/kg	14,8
Izod- notched	ISO 180/A1	Kj/kg	1,7
Charpy- unnotched	ISO 179-1FU	Kj/kg	19,8
Charpy- notched	ISO 179-1EA	Kj/kg	1,4

THERMAL PROPERTIES

Vicat softening temperature	ISO 306	°C	Min.110
Coefficient of linear thermal expansion	ISO 11359-2	mm/m°C	7x10-5
Temperature of deflection under load	ISO 75-2/A	°C	104,58
Dimensional change on heating (shrinkage)	Annex A	%	2,4

OPTICAL PROPERTIES

Total luminous transmittance	ISO13468	%	91
Haze	ISO14782	%	0,5
Refractive index	ISO 489		1,49