

TDS (TECHNICAL DATA SHEET) CASTPLAS CAST ACRYLIC SHEET (OPB3)

GENERAL PROPERTIES	Method	Unit	Value
Density	ISO 1183-1	g/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/m ²	14,8
Izod- notched	ISO 180/A1	kJ/m ²	1,7
Charpy- unnotched	ISO 179-1 FU	kJ/m ²	19,8
Charpy- notched	ISO 179-1 EA	kJ/m ²	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
Specific Heat Capacity	-	J/g-°C	1,46
Thermal conductivity	-	W/m-K	0,187
OPTICAL PROPERTIES			
Light Transmission	ISO13468	%	74,5
Haze	ISO14782	%	95,4
FLAMMABILITY			
Horizontal burning	UL 94:2017	-	HB
Burning rate	-	(mm / dak)	33,8
Flammability classification	EN ISO 11925-2 :2011 EN ISO 13501-1 +A1:2013	Fs≤150 mm	E

* The information in this table is given for general information about our products and application areas according to our current production technology and program. It does not constitute a guarantee for special conditions and applications. Please contact us for technical and detailed test information.

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