

ACRYSIGN High Quality Cast Acrylic sheets

Technical specification: Sheets complies with International standard UNE-EN-ISO 7823-1

PROPERTIES	Unit	Method	Value
Density	g/cm ³	ISO 1183	1.19
Water absorption	%	ISO 62 (1)	0.3
Flammability	class	UL-94	HB
Optical			
Light transmission (clear sheet)	%	ISO 2857	92
Haze (clear sheet)	%	EN 2155-9	1
Refractive index (clear sheet)		ISO 489	1.49
MECHANICAL			
Tensile Strength	MPa	ISO 527-2	74
Elongation at break	%	ISO 527-2	5
Tensile Modulus	MPa	ISO 527-2	3280
Flexural Strength	MPa	ISO 178	114
Flexural Modulus	MPa	ISO 179	3350
Rockwell hardness	M -scale		100
Impact resistant- Izod notched	kJ/m ²	ISO 180/1A	1.5
Impact resistant- charpy unnotched	kJ/m ²	ISO 179/1fu	15
THERMAL			
Vicat softening point	°C	ISO 306	115
Residual Shrinkage (Internal Stress)	%		<2
Temp. of deflection under load 1.8 Mpa	°C	ISO 75-1	105
Coefficient of linear thermal expansion	K ⁻¹	EN 2155-12	7 x 10 ⁻⁵
Vicat softening temperature (50 N)	°C	ISO 306	103
Recommended Continues Service Temperature	°C		82
Recommended Forming Temperature	°C		140-190
ELECTRICAL			
Specific Resistivity	Ohm	DIN 53458	>10 ¹⁵
Volume Resistivity	Ohm x cm	DIN 53458	>10 ¹⁵
Dielectric Constant 50 Hz		DIN 53458	3.6
Disipation Factor 50 Hz		DIN 53458	0.06

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