

PLAZCAST High Quality Cast Acrylic sheets			
Technical specification: <i>Sheets complies with Internationa standard ISO 7823-1</i>			
PROPERTIES	Unit	Method	Value
Density	g/cm ³	ISO 1183	1.2
Water absorption	%	ISO 62 (1)	0.3
Flammability	class	UL-94	HB
Optical			
Light transmission (clear sheet)	%	ASTM D1003	92
Haze (clear sheet)	%	ASTM D1003	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
Residual Shrinkage (Internal Stress)	%		<2
THERMAL			
Vicat softening point	°C	ISO 306	105-112
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
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

THIS PRODUCT INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, RELIABLE.
 USERS SHOULD TEST THE SUITABILITY OF THESE PRODUCTS FOR THEIR OWN PARTICULAR PURPOSES.