



PROPERTIES OF ROXITE® PREMIUM (CAST ACRYLIC, PMMA)

GENERAL - MECHANICAL PROPERTIES			
	TEST METHOD	UNITS	VALUE
Density	DIN 53479	Kg/m ³	1188
Water absorption max.		%	1,75
Charpy impact strenght 3mm / 12 mm	ISO179/1fU	KJ/m ²	16,79/20,51

THICKNESS PROPERTIES			
THICKNESS SHEET	LOWEST THICKNESS	HIGHEST THICKNESS	TOLERANCE
2 mm	1,70	2,30	+/- 0,30
3 mm	2,65	3,35	+/- 0,35
4 mm	3,60	4,40	+/- 0,40
5 mm	4,55	5,45	+/- 0,45
6 mm	5,50	6,50	+/- 0,50
8 mm	7,40	8,60	+/- 0,60
10 mm	9,30	10,70	+/- 0,70
12 mm	11,10	12,90	+/- 0,90

THERMAL PROPERTIES			
	TEST METHOD	UNITS	VALUE
Coefficient of linear expansion	DIN 52328	mm/m/°C	0,065
Specific heat	ASTM C351	j/g/°C	1,32
Vicat softening point 3mm /12 mm	DIN 53460	°C	107 / 118
Thermoforming temperature		°C	130 - 190
Maximal heating temperature		°C	200