

ALT/CBRSB/(PE,PV)/1 CLEAR CAST SHEET, BLOCK, ROUND ROD & SQUARE BAR

ALT CAST acrylic is a thermoplastic polymer obtained by mass polymerisation of pure monomer and is distinguished by its extreme PURITY and TRANSPARENCY together with:

- EXCELLENT MECHANICAL MACHINING

- EASY THERMOFORMING
- BRILLIANCY AND VARIETY OF COLOURS
- LIGHTNESS AND TOUGHNESS
- EXCELLENT RESISTANCE TO LIGHT AND AGEING.

SPECIFICATIONS OF ALT CAST Acrylic

The proprieties according to the methods used refer to tests done on clear sheets having a 3mm thickness at temperature of 23° C and 50% R.H.

PROPERTIES	ASTM METHOD UNIT			DIN METHOD UNIT		
DENSITY (SPECIFIC WEIGHT)	1.19	g/cm2	D792	1.19	g/cm2	53479
WATER ABSORPTION	0.25	%	D570	25	mg	53495
MODULUS OF ELASTICITY TENSILE STRENGTH FLEXURAL STRENGTH ELONGATION AT BREAK IMPACT STRENGTH WITH NOTCH (IZOI IMPACT STRENGTH UNNOTCHED (CHARPY) ROCKWELL HARDNESS BALL DROP H98/30	32000 740 1200 3 2 25 M100	Kg/cm2 Kg/cm2 Kg/cm2 % Kg cm/cm2 Kg cm/cm2	D790 D638 D790 D638 D256 D256	3200 74 120 3 2 27 - 200	N/mm2 N/mm2 N/mm2 % KJ/m2 Kg/m2	53455 53452 53455 53453 53453 53453 - 53453
COEF. OF THERMAL CONDUCTIVITY DEFLECTION TEMP. (1.8N/mm2) SOFTENING POINT COEF. OF LINEAR THERMAL EXPANSION SPECIFIC HEAT	5.104 105 >=115 7,5.10-5	cal/cm/s°C °C °C 1/°C cal/g°C	C177 D648 D1525 D696	0.19 105 >=115 70.10-4	W/m°C °C °C 1/°C	52612 53461 53460 VDE0304/1
REFRACTIVE INDEX n20/D	1.49	-	D542	1.49	-	53491
LIGHT TRANSMITTANCE	92	%	D1003/A	92	%	5036
HAZE	0.5	%	D1003/A	-	-	-
DIELECTRIC STRENGTH VOLUME RESISTIVITY SURFACE RESISTIVITY TRANSVERSAL RESISTIVITY DIELECTRIC CONSTANT (50Hz) POWER FACTOR (50Hz)	20	KV/mm	D149	20	KV/mm	53481
	1015	Ohm/cm	D257	-	-	-
	1414	Ohm	D257	1014	Ohm	53482
	>1015	Ohm/cm	D257	>1015	Ohm/cm	53482
	3.5	-	D150	3.5	-	53483
	0.05	-	D150	0.06	-	53483

RESISTANCE TO CHEMICAL AGENTS ACIDS, BASES AND INORGANIC SALT. Please enquire.

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