MECHANICAL PROPERTIES

ALT/CSB/GD/1 COLOURED CAST SHEET & BLOCK



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 to ISO 7823-1

PROPERTIES

DENSITY (SPECIFIC WEIGHT) WATER ABSORPTION (method 1)	1.19 0.19	g/cm2 %	ISO 1183 ISO 62
MODULUS OF ELASTICITY (Test type 1, speed B) TENSILE STRENGTH (Test type 1, speed B) FLEXURAL STRENGTH TESILE ELONGATION (Test type 1, speed B) IMPACT STRENGTH, Charpy method	3000 72 116 4 14	Mpa MPa Mpa % KJ/m2	ISO 527 ISO 527 ISO 176 ISO 527 ISO 179/2D
ROCKWELL HARDNESS (Escale M)	100		ISO 2039/2
DEFLECTION TEMP. UNDER LOAD (Method A, 1.8Mpa) DIMENSIONAL CHANGE AT HIGH TEMP. (contraction) VICAT SOFTENING POINT COEF. OF LINEAR EXPANSION	105 2.3 105-120 70.6*10-5	°C % °C K-1	ISO 75 Annex ISO 306 EN 2155-12
REFRACTIVE INDEX nº (Method A' LIGHT TRANSMITTANCE Total LIGHT TRANSMITTANCE at 420nm LIGHT TRANSMITTANCE at 420nm after 1000hrs on the xenon lamp AGEING ON ARTIFICIAL LIGHT XENOTES1 TURBIDITY INDEX HAZE	1.492 93 92.6 91.04 5 0.4	- % % grey scale %	ISO/R 489 ISO 2857 ISO 4892 EN 2155-9
VOLUME RESISTANCE SPECIFIC RESISTANCE DIELECTRIC CONSTANT 50Hz DIELECTRIC CONSTANT 0.1Hz	>10^15 >10^15 3 2	Ohm/cm Ohm	DIN 53456 DIN 53458 DIN 53483

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

The data, information and suggestion given are purely an indication, Alternative Plastics does not assume any responsability whatsoever for results or application due to their use, or which are in opposition to existing patents.