

MECHANICAL PROPERTIES

Extruded Acrylic Tube (Clear) Extruded Polycarbonate Tube (Clear)

This data applies to the raw material used during production

PROPERTIES	UNIT	DIN No	Acrylic (PMMA)	Polycarbonate (PC)
Density	g/cm ³	53 479	1.18	1.2
Impact Strength	KJ/m ²	53 453	11	Not Broken
Notched Impact Strength	KJ/m ²	53 453	2	>20
Expansion	1/°C			60-70 x 10 ⁻⁶
Refractive Index (20°C)	nD	53 491	1.49	1.58
Modulus of Elasticity	N/mm ²	53 457	3300	2400
Heat Distortion Temp (Vicat B)	°C	53 460	100	140-150
Constant Working Temp. (in air without mechanical force being applied)	°C		75	115
Flammability		4102 Part 1	B2	B2
Flammability (UL 94)			HB	HB-Vo
Light Transmission	%		92	>86

The data mentioned in this table is based on data from the raw materials. They are standard values as standard parts under standard conditions. All data is given as guidance only and should not be applied to profiles without reservation. The polycarbonate store accept no responsibility whatsoever for results or application due to their use, or which are in opposition to existing patents.