

Material name, short description	PMMA-XT
Material name, based on technical standards	Polymethyl methacrylate extruded
Density	1.19 g/cm³
Color	transparent
Compound code	PMMA-XT 00.006-00

## Mechanical properties

Tensile strength	35 N/mm² ISO 527-2,1B,5 70°C
Elongation at break	4.5 % ISO 527-2,1B,5
Flexural modulus of elasticity	3300 N/mm² ISO 527-2,1B,1
Bending strength 1	105 N/mm² ISO 178 Normbar 80 x 10 x 4 mm
Ball indentation hardness	175 N/mm² ISO 2039-1
Impact strength	#ErrorkJ/m² ISO 179/1fU Charpy
Notch impact strength	1.60 kJ/m² ISO 180-1A acc. Izod
Coefficient of sliding friction	0.5 Plastic on steel

## Other attributes

Water absorption	38 mg ISO 62-1 24h, 23°C Sample 60 x 60 x 2 mm
Refractive index	1.491 ISO 489
Light reflection degree	4 % Visual Area, pro Surface

## Thermal attributes

Max. operating temperature long term	70 °C
Coefficient of linear thermal expansion 1	5 mm/m Temperature/Humidity
Coefficient of linear thermal expansion 2	7 10 <sup>-5</sup> K <sup>-1</sup> DIN 53752-A 0 - 50°C
Heat deflection temperature 1	95 °C ISO 75 Bending Tension 1.8 N/mm²
Heat deflection temperature 2	100 °C ISO 75 Bending Tension 0.45 N/mm²
Specific heat capacity	1.47 J/(g·K)
Thermal conductivity	0.19 W/(m·K) DIN 52612

## Electrical attributes

Comparative tracking index	600 CTI DIN VDE 0303-1
Dielectric dissipation factor 1	0.06 DIN VDE 0303-4 at 50 Hz
Dielectric constant 1	3.7 DIN VDE 0303-4 at 50 Hz
Dielectric strength 1	30 kV/mm DIN VDE 0303-2
Surface resistivity	10 <sup>13</sup> Ω DIN VDE 0303-3

In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.

Approvals / Compliance

Food & Beverage	FDA CFR 21 - 177.1010 "Acrylic and modified acrylic plastics, semirigid and rigid"
	EC No. 1935/2004
	EC No. 1935/2004 incl. last amendments ....
	Regulation EU 10/2011



EC No.1935:2004



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