PMMA XT

ACRYLIC GLASS EXTRUDED

Material description

PMMA XT is an amorphous thermoplastic with crystal clear transparency and high surface gloss. PMMA is available in a wide range of colours and scratch-resistant coating. this organic glass has high mechanical strength but low impact resistance. PMMA has excellent weather resistance. The sensitivity to breakage and susceptibility to stress cracking should be noted.

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	1.19	g/cm3
Water absorbtion	DIN EN ISO 62	2.1	%
Sliding friction		•	
Abrasion resistance		•	

Mechanical properties	Test method	Value	Unit
Yield stress	DIN EN ISO 527	70	MPa
Elongation at break	DIN EN ISO 527	4	%
Tensile modulus of elasticity	DIN EN ISO 527	3200	MPa
Notched impact strength	DIN EN ISO 527	2	kJ/m2
Shore Hardness D	ISO 868	85	

Thermal properties	Test method	Value	Unit
Thermal conductivity	DIN 52612-2	0.18	W/(m*K)
Heat capacity	DIN 52612-1	1.47	kJ/(kg*K)
Coefficient of thermal expansion	DIN 53752	70	10 ^{-6*K} -1
Operating temperature short term		90	°C
Operating temperature long term		-40 bis 70	°C
Heat deflection temperature	DIN EN ISO 75 / A	95	°C
Flammability	UL 94, 3 mm	НВ	

Test method	Value	Unit
IEC 60093	10 ¹⁵	Ω * cm
IEC 60093	10 ¹⁶	Ω * cm
IEC 60243	30	kV/mm
IEC 60112	600	CTI
	IEC 60093 IEC 60093 IEC 60243	IEC 60093 10 ¹⁵ IEC 60093 10 ¹⁶ IEC 60243 30

These technical data have been determined as average values by our suppliers from many individual measurements. In all measurements, the test specimens were tested in the dry state. We pass on the data with reservation. The table does not claim to be complete or correct. Material technology is subject to constant further development. No rights or guarantees can be derived from it. Own tests are necessary because the environmental and operating conditions (humidity, temperature, mechanical forces, radiation and chemicals, etc.) set limits in the application.

