

Technical datasheet

PMMA XT (polymethylenmetacrylate extruded)

Example of application
<ul style="list-style-type: none"> › Roofing, windbreak, covers, vacuum lid › Signage und displays › Housing, furniture › Decoration

Advantage	Disadvantages
<ul style="list-style-type: none"> › Good weatherproof and ageing resistance › Good impact resistance and adhesion › Easy formability › Scratch resistance › Lower thickness tolerance than PMMA GS 	<ul style="list-style-type: none"> › Susceptibility to breakage › Susceptibility to stress cracking › Susceptible to cleaning agents containing alcohol

Basic information	Specification
Format	Sheets: 2 – 6, 8, 10, 12, 15 and 25 mm available in 2.05 m x 3.05 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.19	g/cm ³	DIN EN ISO 1183
Moisture ingress	0.2	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	70	N/mm ²	DIN EN ISO 527
Elongation at break	4	%	DIN EN ISO 527
E-module	3.030	N/mm ²	DIN EN ISO 527
Notch toughness	10	kJ/m ²	DIN EN ISO 179
Rockwellhardness	101	M-scale	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.19	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.7	K ⁻¹ ·10 ⁻⁴	DIN 53752
	1.4	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	90	°C	
Max. operating temperature, long-term	70	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10 ¹⁵	Ω·cm	DIN 53482
Outer surface coefficient	10 ¹⁴	Ω	DIN 53482
Puncture resistance	30	kV/mm	DIN 53481

Legend
n.sp.= not specified

*Higher specification on request.

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