

# Technical datasheet

## PMMA XT (polymethylenmetacrylate extruded), high impact resistant

Example of application
<ul style="list-style-type: none"> <li>› with special coating to prevent electrostatic charging (e.g. for covers and housings)</li> <li>› mainly used for interior application</li> </ul>

Advantage	Disadvantages
<ul style="list-style-type: none"> <li>› high mechanical strength</li> <li>› high surface gloss</li> <li>› good weatherproof und ageing resistant</li> <li>› good impact resistant- and bondability</li> <li>› easy formability and lower thickness tolerance than PMMA GS</li> </ul>	<ul style="list-style-type: none"> <li>› surface scratched</li> <li>› susceptibility to breakage</li> <li>› susceptibility to stress cracking</li> </ul>

Basic information	Specification
Format	sheets: 2 up to 6 mm available in 2.05 m x 3.05 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.15	g/cm <sup>3</sup>	DIN EN ISO 1183
Moisture ingress	0.3	%	DIN EN ISO 62 Method 1

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	40	N/mm <sup>2</sup>	DIN EN ISO 527
Elongation at break	35	%	DIN EN ISO 527
E-module	1.800	N/mm <sup>2</sup>	DIN EN ISO 527
Notch toughness	60	kJ/m <sup>2</sup>	DIN EN ISO 179
Rockwellhardness	n.a.	M-scale	DIN EN ISO 2039
Thickness	n.a.	µm	

Thermal properties	Standard term/Specification*	Unit	Testing method
Vicat-softening temperature	98	°C	DIN EN ISO 306 (B50)
Thermal conductivity	0.18	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	1.1	K <sup>-1</sup> ·10 <sup>-6</sup>	DIN 53752
	2.2	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	75	°C	
Max. operating temperature, long-term	65	°C	

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

Legend
n.sp.= not specified n.a. = not applicable

\*Higher specification on request.

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