

Technical datasheet

PMMA XT anti-static coating (polymethylmethacrylate)

Example of application			
<ul style="list-style-type: none"> › With special coating to prevent electrostatic charging (e.g. for covers and housings) › Especially for indoor application 			
Advantage		Disadvantages	
<ul style="list-style-type: none"> › High mechanical resistance, high surface gloss › ESD-conductive › Good weatherproof and ageing resistance › Good impact resistance and adhesion › Easily formable and lower thickness tolerance than PMMA GS 		<ul style="list-style-type: none"> › Susceptibility to scratching › Susceptibility to breakage › Susceptibility to stress cracking 	
Basic information		Specification	
Format		Sheets: 2 – 6, 8, 10, 12, 15 and 20 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	n.sp.	%	DIN EN ISO 62
Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	75	N/mm ²	DIN EN ISO 527
Elongation at break	104	%	DIN EN ISO 527
E-module	3.300	N/mm ²	DIN EN ISO 527
Notch toughness	12	kJ/m ²	DIN EN ISO 179
Rockwellhardness	n.sp.	n.sp.	
Thickness	n.sp.	µm	
Thermal properties	Standard term/Specification*	Unit	Testing method
Vicat softening temperature	115	°C	DIN EN ISO 306 (B50)
Thermal conductivity	0.19	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.7	K ⁻¹ ·10 ⁻⁶	DIN 53752
	1.4	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	100	°C	
Max. operating temperature, long-term	80	°C	
Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	
Outer surface coefficient	10 ⁴ -10 ⁷	Ω	ASTM D257
Puncture resistance	n.sp.	kV/mm	
Legend			
n.sp.= not specified			

*Higher specification on request.

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