Technical datasheet

PMMA XT anti-static coating (polymethylmethacrylate)

Example of application
› With special coating to prevent electrostatic charging (e.g. for covers and housings) › Especially for indoor application

Advantage	Disadvantages
› 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	› 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	$K^{-1} \cdot 10^{-6}$	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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transparent plastics

noltewerk GmbH & Co. KG · Mergenthalerstr. 15 · 48268 Greven · Germany · t +49 (25 71)16-0 · f +49 (25 71)16-402 · info@noltewerk.de · www.noltewerk.de