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Technical datasheet

PC anti-static coating (polycarbonate)

Example of application
› With special coating to prevent electrostatic charging (e.g. for covers and housings) › Insulating parts for the electrical industry › Partitions, acoustic barriers

Advantage	Disadvantages
› ESD-conductive › Good transparency (about 85 %) › Physiologically inert › Self-extinguishing and cold mouldable	› Susceptibility to scratching › Moisture ingress › Poor chemical resistance

Basic information	Specification
Format	**Sheets:** 3 – 6, 8 and 10 mm available in 2 m x 3 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.2	g/cm^3	DIN EN ISO 1183
Moisture ingress	0.35	%	DIN EN ISO 63

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	60	N/mm^2	DIN EN ISO 527
Elongation at break	> 80	%	DIN EN ISO 527
E-module	2.200	N/mm^2	DIN EN ISO 527
Notch toughness	fracture free	kJ/m^2	DIN 53453
Rockwellhardness	n.sp.	n.sp.	
Thickness	< 1	µm	

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.2	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.65	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.3	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	135	°C	
Max. operating temperature, long-term	115	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10^{16}	Ω·cm	DIN IEC 60093
Outer surface coefficient	10^4-10^8	Ω	ASTM D257
Puncture resistance	35	kV/mm	IEC 60243

Legend
n.sp.= not specified

*Higher specification on request.

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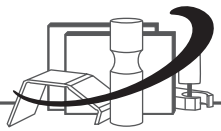

transparent plastics

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