

Technical Data Sheet

PC antistatic

PC antistatic (ESD)

Typical Properties

- Permanently electrostatically dissipative
- Excellent scratch resistance and chemical resistance
- High impact strength (250x more break-resistant than glass)
- Prevents electrostatic charging and protects sensitive electronics
- Dust- and dirt-repellent surface
- Two-sided antistatic coating incl. factory-applied protective film

Typical Industries

- Electronics and semiconductor manufacturing
- Cleanroom technology
- Chemical, pharmaceutical and food processing
- Paper and printing industry
- Protective screens and enclosures
- Machine door panes

	Test Method	Unit	Value
General Properties			
Density		g / cm ³	1.20
Colour			colourless
Available thicknesses		mm	3 / 4 / 5 / 6 / 8
Thickness tolerance		%	±10
Manufacturing process			Extrusion
Fire behaviour (thickness 1-6 mm)	EN 13501-1		B-s1,d0
UV resistance			not UV-stabilised (not for long-term outdoor weathering)
Mechanical Properties			
Yield stress	ISO 527-1,-2	MPa	>60
Tensile modulus	ISO 527-1,-2	MPa	2350
Flexural strength	ISO 178	MPa	90
Impact strength (Charpy, unnotched)	ISO 179/1eU		no break
Thermal Properties			
Heat deflection temperature (1.8 MPa)	ISO 75-1,-2	°C	128

	Test Method	Unit	Value
Vicat softening temperature B/50	ISO 306	°C	148
Thermal conductivity	ISO 8302	W / (m·K)	0.20
Continuous service temperature		°C	~120
Optical Properties			
Light transmission		%	~70
Electrical Properties			
Surface resistivity	IEC 60093	Ω	10 ⁶ to 10 ⁹
Working principle			permanently antistatic- finished surface (no wear-off of the effect over time)

PC antistatic is based on standard polycarbonate with a permanently antistatic coating factory-applied to both sides. Surface resistivity may vary within the stated range depending on thickness, climate and measurement conditions. Light transmission is reduced compared with uncoated polycarbonate (approx. 90%) due to the two-sided coating. The material is not UV-stabilised and therefore not suitable for permanent outdoor use. The antistatic coating is not declared for direct food contact. The values stated are typical average values intended as an aid to material selection; they do not constitute a legally binding assurance of specific properties.