Technical datasheet

PC UV (polycarbonate UV-resistant)

Example of application
› Machine covers, safety covers › Insulating parts for the electrical industry › Partitions, acoustic barriers › Suitable for outdoor use

Advantage	Disadvantages
› Good transparency (about 85 %) › High notch toughness › Limited cold moulding › UV-resistance	› Poor chemical resistance › Moisture ingress › Susceptibility to scratching

Basic information	Specification
Format	**Sheets:** 3 – 6 and 8 mm available in 2.05 m x 3.05 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.2	g/cm³	DIN EN ISO 1183
Moisture ingress	n.sp.	%	

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	60	N/mm²	DIN EN ISO 527
Elongation at break	80	%	DIN EN ISO 527
E-module	2.200	N/mm²	DIN EN ISO 527
Notch toughness	fracture free	kJ/m²	DIN EN ISO 179
Rockwellhardness	n.sp.	n.sp.	

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	130	°C	
Min. operating temperature, long-term	-40	°C	
Max. operating temperature, long-term	115	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10^{15}	Ω·cm	DIN 53482
Outer surface coefficient	> 10^{15}	Ω	DIN 53482
Puncture resistance	> 30	kV/mm	DIN 53481

Legend
n.sp.= not specified

*Higher specification on request.

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transparent plastics

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