Technical datasheet
PC (polycarbonate)

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

Advantage	Disadvantages
› Good transparency (about 86 %) › High notch toughness › Cold moldable & thermally moldable to a limited extend › Very high impact resistance, virtually indestructible	› Poor chemical resistance › Susceptibility to scratching

Basic information	Specification
Format	**Sheets:** 2 – 6, 8, 10, 12, 15 and 20 mm available in 3,05 m x 2.05 m and 1.25 m x 2.05 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.2	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	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 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	$K^{-1}\cdot10^{-4}$	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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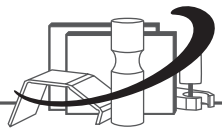

transparent plastics

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