

# Technical datasheet

## PC UV (polycarbonate UV-resistant)

Example of application
<ul style="list-style-type: none"> <li>› Machine covers, safety covers</li> <li>› Insulating parts for the electrical industry</li> <li>› Partitions, acoustic barriers</li> <li>› Suitable for outdoor use</li> </ul>

Advantage	Disadvantages
<ul style="list-style-type: none"> <li>› Good transparency (about 85 %)</li> <li>› High notch toughness</li> <li>› Limited cold moulding</li> <li>› UV-resistance</li> </ul>	<ul style="list-style-type: none"> <li>› Poor chemical resistance</li> <li>› Moisture ingress</li> <li>› Susceptibility to scratching</li> </ul>

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/cm <sup>3</sup>	DIN EN ISO 1183
Moisture ingress	n.sp.	%	

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	60	N/mm <sup>2</sup>	DIN EN ISO 527
Elongation at break	80	%	DIN EN ISO 527
E-module	2.200	N/mm <sup>2</sup>	DIN EN ISO 527
Notch toughness	fracture free	kJ/m <sup>2</sup>	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 <sup>-1</sup> ·10 <sup>-4</sup>	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 <sup>15</sup>	Ω·cm	DIN 53482
Outer surface coefficient	> 10 <sup>15</sup>	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