

Technical Data Sheet PC HB

Feedstock: polycarbonate

Mechanical properties:

very high dielectric strength, almost unbreakable

Green density ¹	ISO 1183	≈ 1,2	g/cm ³
Yield stress	ISO 527	60	(MPa) N/mm ²
Expansion at yield stress	ISO 527	> 50	%
Impact Charpy +23°C notched	ISO179	> 13	kJ/m ²

¹ This value can slightly vary as a result of pigmentation or addition.

Thermal properties:

Permanent service temperature		115	°C
Vicat Softening Point B/50	ISO 306	≥ 103	°C
Heat Distortion Temperature (A)	ISO 75	≥ 127	°C
Thermal conductivity	ASTM C177	0,2	W/mK

Electrical properties:

Specific volume resistivity	DIN EN 61340-5-1	≥10 ¹⁵	Ωcm
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Chemical resistance (PC in general):

resistant ² :	diluted acids; some oils and fats; ethanol
not resistant ² :	bases; aromatic und halogenated hydrocarbons; ketones; esters

²Kunststoffe.de

Current state: 27.11.2017

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Inflammability support material:

Flammability rating	UL 94	HB
UL file numbers	E41613; E45329; E53664; E157291; E251546	
Glow wire test 650 °C	IEC 695-2-1	-

Designation in technical drawings:

PC transp. 3mm

PC	= material (polycarbonate)
transp.	= transparent
3mm	= thickness

	1mm	1,5mm	2mm	3mm	4mm	5mm	6mm	7mm	8mm	10mm	12mm	15mm
PC HB transparent	X	X	X	X	X	X	X	X	X	X	X	X

2

More thicknesses on request!

Printability:

printable

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