

## technical plastic: Polycarbonat (PC)

### application

Safety Glazing | Building Construction | Roofing |  
Protective Glazing for Machinery | Visors |  
Equipment Facings | Barrel vaults | wind deflectors  
| vehicle glazing

### properties

transparent | good high- and low-temperature  
behaviour | good electrical insulation properties |  
can be cold bent and hot formed

### storage

depending on temperature and humidity  
dimensional changes may occur | store dry and in  
the plus range!

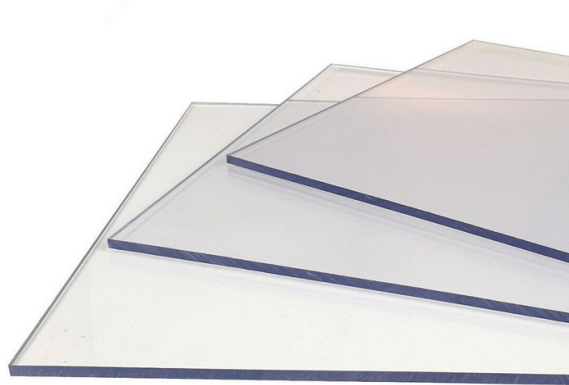
### processing

PC sheets must be dried before hot and cold forming  
| Ensure sharp tools and good chip  
Make sure that the tools are sharp and that the  
chips are well removed

- To avoid scratches, the film should not be removed  
during processing.
- Panels can be processed with circular, band, jigsaw  
and hand saw
- PC can be machined with standard carbide-tipped  
milling tools
- Drilling can be done with commercially available  
drills (point angle 90° to 120°)
- For mounting PC panels, aluminium rivets with  
large rivet heads or stainless steel screws should be  
used. stainless steel screws should be used.  
Screw holes should correspond to 1.5 x the screw  
diameter

### product range

We offer PC as semi-finished products in various  
dimensions and thicknesses as sheets



properties	values
quality	Polycarbonat
colour	transparent
hardness (Shore D) DIN EN ISO 868 (15 s)	80
gravity (g/cm <sup>3</sup> ) DIN EN ISO 1183	1,14
impact strength (kJ/m <sup>2</sup> ) DIN EN ISO 179	without breakage
notch impact strength Charpy (kJ/m <sup>2</sup> ) DIN EN ISO 179-1eA	55
tensile modulus of elasticity (Mpa) DIN EN ISO 527	2600
mean coefficient of linear thermal expansion (K <sup>-1</sup> ) ISO 11359-2	0,85 x 10 <sup>-4</sup>
Vicat B (°C) DIN EN ISO 306	120
fire behaviour DIN 4102	B2 normal flammability (self-assessment without test certificate)
temperature range (C°)	-30 ~ +110



Hinweis: Die technischen Kennwerte sind lediglich eine Planungshilfe. Insbesondere stellen sie keine zugesicherten Eigenschaften dar. Die Informationen im Datenblatt beruhen auf Einzelmessungen und unseren derzeitigen Kenntnissen und Erfahrungen. Produktionsbedingte Änderungen vorbehalten.  
Wir weisen darauf hin, dass die individuellen Einsatzbedingungen Einfluss auf die Eigenschaften jedes einzelnen Produktes nehmen. Aus diesem Grund ist der Kunde verpflichtet, die Materialien einer Eignungsprüfung zu unterziehen. Der Einsatz unserer Materialien erfolgt ausschließlich im Verantwortungsbereich des Anwenders.

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