

PC

Polycarbonate (PC) is a technical material with excellent layer adhesion, tensile strength and temperature resistance.

PC PROLAY® is a great material for use in the automotive, medical, aviation, household appliances, prototyping and many other industrial industries.

- **low hygroscopicity**
- **allowing contact with food**
- **suitable for medical applications**

Physical properties

Density	Test methods
1,2 g/cm ²	ISO-1183
Moisture absorption 23C/50%RH	
0,15 %	ISO 62
Weight of spool (net)	
1,0 / 2,5 / 5,0 kg	

Mechanical properties

Tensile stress yield, 50 mm/min	Test methods
63 MPa	ASTM D638
Tensile modulus, 5mm/min	
2320 MPa	ISO 527
Flexural stress yield, 2 mm/min	
90 MPa	ISO 178
Flexural moduls, 2 mm/min	
2300 MPa	ISO 178
Ball indentation hardness H358/30	
95 MPa	ISO 2039-1

Impact properties

Izod impact, notched 23 °C	Test methods
633 J/m	ASTM D256
Izod impact, notched -30 °C	
30 J/m	ASTM D256
Charpy impact, notched 23 °C	
35 kJ/m ²	ISO 179/2C

Electrical properties

Dielectric strength	Test methods
17 kV/mm	IEC-60234-1

Flame characteristics

Flame Class Rating	Test methods
1,47 mm	UL94

PROLAY a brand of BIBUS MENOS
Spadochroniarzy 18
80-298 Gdańsk
POLAND

www.prolay3d.com
contact@prolay3d.com

