

Polycarbonate

PC

PC is a versatile, robust, and heat-resistant material ideal for crafting your complex designs. With its excellent durability, toughness and rigidity, it's perfect for a wide range of applications. Experience the future of 3D printing with Polycarbonate at Weerg.



Material properties

Density	ISO 1183	1,20	g/cm ³
Water absorption at saturation	ISO 62	0,15	%
Tensile strength	ISO 527	60,7	MPa
Elongation at break	ISO 527	5,6	%
Elastic modulus	ISO 527	2480	MPa
Flexural strength	ISO 178	84,3	MPa
Resilience		No break	
Hardness	ISO 868	80 D	Shore
HDT 0.45 MPa	ISO 75	114,1	°C
HDT 1.8 MPa	ISO 75	99,3	°C
Vicat softening temperature	ISO 306	116,9	°C
Melting temperature	ISO 11357	220	°C
Thermal conductivity (20°C)	ISO 22007	0,2	W/mK

Printing layer height

0,15 mm (0,006 in)

Maximum dimensions

250x250x250 mm (9.8x9.8x9.8 in)

Infill

30%

Shell thickness

1,8 mm (0,07 in)

Tolerances

± 0,60mm < 100mm / ± 0,75% > 100mm

Applications

The material has countless applications in engineering due to its strength, hardness, heat resistance and print quality

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