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/cm³
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