



Polymaker™ PC-PBT

SKU: PM70260

The Industrial range of products provide engineering grade materials to unlock the use of 3d printing in multiple industries for new applications. Industrial products can require specific equipment and skills.

This Specialty family provides unique filaments from Polymaker to unlock new 3D printing applications.

Polymaker™ PC-PBT is a PC/PBT polymer blend which offers good heat resistance and toughness at low temperature (-20°C/-30°C). Polymaker™ PC-PBT also features good chemical resistance.

Colour-Black, Natural

Diameter size-1.75mm, 2.85mm

Net weight-1Kg

RECOMMENDED SETTINGS

Nozzle Temperature:
260°C – 280°C
Printing Speed:
30 – 50mm/s
Bed Temperature:
100°C – 115°C
Chamber Temperature:
100°C – 110°C
Bed Surface:
almost any surface with a thin coat of MAGIGOO PC
Cooling Fan:
OFF

MECHANICAL PROPERTIES

Young's Modulus:
1986 ± 85 (MPa)
Tensile Strength:
41.8 ± 0.9 (MPa)
Bending Strength:
64.4 ± 0.3 (MPa)
Charpy Impact Strength:
21.4 ± 3 (kJ/m²)

THERMAL PROPERTIES

Glass Transition Temperature:
140°C
Vicat Softening Temperature:
139°C
Melting Temperature:
223°C

NOTES

Drying Settings:
75°C for 6h
Recommended Support Materials:
PolyDissolve™ S2 (coming soon)

Other:

When printing with Polymaker™ PC-PBT it is recommended to use a heated chamber. It is recommended to anneal the printed part right after the printing process to release the residual internal stress when not using a heated chamber.

Annealing settings: 90°C for 2h
