

PrintaMent PC

DATASHEET

Description

PC is a high-performance plastic that possesses a unique balance of toughness, dimensional stability, optical clarity, high heat resistance and excellent electrical resistance. PC is commonly used to make all sorts of products including bullet-proof glass, riot shields, cellphone exteriors and many other products that require an engineering grade material. We recommend PC for more experienced users that are looking to extend their filament options.

Features

- Great strength & stiffness
- High optical clarity
- Resistant to high temperatures up to 140 °C
- Low flammability (UL-94 V2)

Colors

Clear

Additional Info

Recommended temperature for the heated bed is $\pm 110^{\circ}\text{C}$. PC is printed at a high temperature to make the final product extra strong. PC can be used on all common desktop FDM or FFF technology 3D printers. Storage: Cool and dry ($15\text{-}25^{\circ}\text{C}$)

and away from UV light. This enhances the shelf life significantly.

Technical Data

Dimensions

Size	Tolerance	Roundness
$\varnothing 1,75\text{mm}$	$\pm 0,05\text{mm}$	>95%
$\varnothing 2,85\text{mm}$	$\pm 0,10\text{mm}$	>95%

Physical Properties

Description	Typical Value
Specific gravity	1,2 g/cc
MFI 300 °C/1,2g	12 g/10 min
Tensile strength	65 Mpa
Tensile elongation ISO 527 50mm/min	120%
Tensile modulus ISO 527 1mm/min	2350 Mpa
Impact strength Charpy method 23 °C	36 KJ/m2

Thermal Properties

Size	Roundness
Printing temp.	270-290 °C
vicat softening temp.	145 °C