

PC-ABS

PC-ABS is an incredibly strong filament with an even higher impact resistance than our regular ABS. This is a consequence of the addition of the proper amount of polycarbonate in this modification, which also creates a nearly perfect interlayer adhesion and a beautiful surface gloss. The above features, combined with a highly stable printing process makes PC-ABS the perfect material for mechanical parts and tools, which should be light and strong and show minimal wear after prolonged use.

Features:

- Improved interlayer adhesion
- High impact resistance
- High surface gloss
- Stable printing process



Colours:

PC-ABS is available from stock in black & white. For other colours a minimum of 40 kg \pm 10% is required.



Packaging:

PC-ABS is available in nearly any type of packaging and labelling. Ask our team to help you customizing your product.

Additional info:

Recommended temperature for heated bed is +100°C. We recommend kapton and / or pva glue stick for adhesion.

PC-ABS can be used on all common desktop FDM or FFF technology 3D printers.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

Dimensions

Size	Ø tolerance	roundness
1,75mm	\pm 0,05mm	\geq 95%
2,85mm	\pm 0,10mm	\geq 95%

Physical properties

Description	Testmethod	Typical value
Specific gravity	ASTM D792	1,05 g/cc
MFR 220°C/10kg	ASTM D1238	7,0 g/10 min
Tensile strength	ASTM D638	46 Mpa
Strain at break	ASTM D638	13%
Tensile modulus	ASTM D638	2100 Mpa
Impact strength Izod method 23°C	ISO 180/A	40 KJ/m ²

Thermal Properties

Description	Testmethod	Typical value
printing temp.	-	245-275°C
mellting temp.	ISO 294	250°C \pm -10°C
Heat Deflection Temp.	ISO 306	\pm 108°C