

PC-ABS (COD.: PCABS)

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.

Dimensions

Size	Ø Tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%

Physical Properties

Description	Test Method	Typical Value
Specific Gravity	ASTM D792	1,05 g/cc
MFR 220°C/10kg	ASTM D1238	7,0 gr/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	Test Method	Typical Value
Printing Temperature	-	245-275°C
Melting Temperature	ISO 294	250°C ±10°C
Heat Deflection Temp.	ISO 306	± 108°C



Colours:

K03009 Black

K03010 White

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.

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