

PC @df

PC @df 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 @df 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)



Dimensions

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Physical properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,2 g/cc
MFI 300°C/1,2g	ISO 1133	12 g/10 min
Tensile strength	ISO 527 50mm/min	65 Mpa
Tensile elongation	ISO 527 50mm/min	120%
Tensile modulus	ISO 527 1mm/min	2350 Mpa
Impact strength Charpy method 23°C	ISO 179 23°C	36 KJ/m ²

Colours:

PC @df is available from stock in 1 clear colour.
For other (translucent) colours a minimum of 40 kg ± 10% is required.



Thermal properties

Description	Testmethod	Typical value
printing temp.	Df	270-290°C
melting temp.	-	
vicat softening temp.	ISO 306	145°C

Packaging:

PC @df is available in nearly any type of packaging and labeling.
Ask our team to help you customizing your product.

Additional info:

Recommend temperature for the 'heated bed' is ± 110°C.
PC @df is printed at a high temperature to make the final product extra strong.
PC @df 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.