

TPU98A

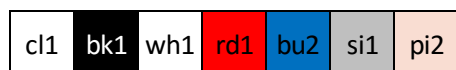
TPU98A is a specifically formulated flexible filament for easy & high speed printing on both direct and Bowden style 3D printers. TPU98A features an exceptionally high heat resistance (138 °C) and can be stretched as far as 450% before reaching its breaking point. TPU98A does not require the use of a heated bed and can even be printed straight onto (clean) glass. TPU98A is the flexible filament for (semi) professional users who do not want to compromise and require a high mechanical flexible filament that prints easily. TPU98 is an extremely usable flex-filament with a wide variety of different applications such as Orthopedic insoles, Prosthetics, Vibration dampers and much more.

Features:

- Strong & Flexible
- Works on Direct & Bowden style 3D printers
- Printable at speeds of >75mm/s
- Exceptionally high softening point of 138 °C
- 450% elongation at break
- FDA / FCA & water contact acceptable
- Resistance to oils, greases & microorganisms
- Easily print watertight objects

Colours:

TPU98A is available from stock in 6 colours.



Packaging:

TPU98A is available in nearly any type of packaging and labelling, but will always be supplied in a vacuum bag, due to the moisture sensitivity of TPUs. Ask our team to help you customizing your product.

Filament specs.

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

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,16 g/cc
Tensile strength at yield	ISO 527 1/2	50 Mpa
Elongation at break	ISO 527 1/2	450%
Tensile modulus	ISO 527	150 MPa
Impact strength - Charpy notched 23°C	ISO 179	NB
Shore A Hardness	ISO 7619-1	98A
Printing temp.	DF	225-250°C
Melting temp.		220°C ± 10°C
Glass transition (Tg)	DSC	-16°C
Vicat softening temperature	ASTM D 1525	138°C

Additional info:

TPU98A does not require a heated bed to stick well though you can set it to 0-60°C for extra reassurance. TPU98A works superb with a direct drive feeder, or newer types of Bowden FDM or FFF technology 3D printers. By changing the infill / amount of walls you can create the perception of a higher / lower shore than 98A. Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.