

Datasheet

Flexfill TPU 92A

Description:

Flexfill TPU 92A is flexible filament that offers special mechanical behaviour.

Thanks to its flexibility, it works perfectly for sealings and repeatedly bending applications.

Great adhesion of layers insures good tear strength in all directions. The printed objects have also high abrasion and chemical resistance.

This material can be used for production of electrical and electronic equipment. It doesn't contain the restricted substances. The use of the material in the food or medical industry is not recommended.

For flexible materials, Fillamentum can guarantee maximum deviation of diameter +/- 0,10 mm. During the production, filament is made with the best stability of diameter, roundness and colour.



Physical properties	Typical Value	Test Method	Test Condition
Material density	1,20 g/cm ³	ISO 1183-1	
Melt volume index	35 cm ³ /10 min	ISO 1133-1	210 °C, 10 kg
Diameter tolerance	± 0,10 mm		
Weight	500 g of filament (+ 250 g spool)		
Mechanical properties	Typical Value	Test Method	Test Condition
Tensile strength	49 MPa	DIN 53504	at break
Tensile stress	7,5 MPa 16 MPa	DIN 53504 DIN 53504	100% elongation 300% elongation
Elongation at break	600 %	DIN 53504	
Hardness	91 Shore A 42 Shore D	ISO 7619 ISO 7619	
Tear strength	85 kN/m	ISO 34-1	
Abrasion	30 mm ³	ISO 4649	
Chemical properties	Typical Value	Test Method	Test Condition
Polymer base	polyurethane		
Oils, greases and ozone resistance	good		25 °C
Water, acetone, acids, alkalis, alcohols and car fluids resistance	bad		25 °C
Printing properties	Recommended	Notes	
Print temperature	220-240 °C	Recommended settings! It may differ according to the printer and the object. Try your own settings before printing.	
Hot pad	50-60 °C		
Bed adhesive	Magigoo	For easy removing of the object.	
Speed of printing	20-30 mm/s	Only direct extruder type.	
Fan speed	70-100 %		

Workability of 3D printing filament is at least 12 months from delivery.

The information was processed with the best knowledge of the manufacturer and it is for information only.