Tpu85A filament

FDM Technology, 210706

Introduction

Flexible Polyurethane

Weight: 500 gr
Diameter: 1,75 mm - 2,85 mm
Color: black

Main Features

- Flexible
- High elongation and elasticity
- Good dimensional stability
- Easy to process
- Low moisture absorption
- Compatible with water support materials





Technical Data Sheet

Recommended 3D-Print processing parameters		
Nozzle Temperature		240 – 260 °C / 464 – 500 °F
Build Chamber Temperature		-
Bed Temperature		40 – 65 °C / 104 – 149 °F
Bed Material		PEI or Glass
Nozzle Diameter		⩾ 0.4 mm
Print Speed		30 - 60 mm/s

Mechanical Properties (Dry)		
Tensile strength	4 MPa	ASTM D638
Elongation at Break	660 %	ASTM D638
Elongation at Yeld	65%	ASTM D638
Izod impact strength (notched)	4.2 kJ/m²	ASTM D256
Hardness	85A	Shore

Thermal Properties		
HDT @ 0.07 MPa	60°	ASTM D648
HDT @ 0.45 MPa	44°	ASTM D648
Glass transition	-5°	DSC
Melting Point	216°	DSC

Notes

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.