

FLEXpro

High performance, flexible filament, without the problems!

Description

Our flexible filament has been formulated from the highest quality thermoplastic polyurethane (TPU) – it is strong, flexible, heat resistant up to 140°C, and features excellent printability on both direct-drive and Bowden extruder systems. Overall this is the perfect flexible filament, combining material properties and ease of use – ideal for orthopedic, prosthetics, RC and many other applications.

		Test Method	Typical Value
Physical Properties	Specific Gravity	ISO 1183	1.16 g/cc
	Melt Flow Rate	ISO 294	225°C

		Test Method	Typical Value
Mechanical Properties	Impact Strength	ISO 179	NB ²
	Tensile Modulus	ISO 527	150 MPa
	Strain at Yield	ISO 527 1/2	50 MPa
	Strain at Break	ISO 527 1/2	450%

		Test Method	Typical Value
Thermal Properties	Printing Temperature	-	220 - 250°C
	Melting Temperature	ISO 294	225°C
	Vicat Softening Temperature	ASTM D 1525	138°C

Filament Specifications	Diameter	Tolerance	Roundness
	1.75mm	± 0.05mm	>95%
	2.85mm	± 0.10mm	>95%