

Flexa Grey

Material's Technical Data Sheet

General purpose elastic TPU material for prototyping. Reasonable elongation with ease of use.

Compatible with:



FEATURES

- flexible prints with increased extensibility
- adjustable hardness
- 100% reusable

APPLICATIONS

- standard rubber items
- prototypes and design
- shock and vibration absorbers
- protectors



General information

General information		Test method	
Material type	TPU		
Software	Sinterit Studio Basic		
Nitrogen needed	No		
Refresh ratio ¹	0 ²	%	
Colour	grey		
Particle size	20-105	µm	ISO 13320
Printout density	0.74	g/cm ³	PN-EN ISO 845:2010
Printout water absorption	9.1	%	PN-EN ISO 62:2008

1. Refresh ratio is the amount of refreshing powder that is required to be mixed after the printing with unsintered material.
2. Flexa materials has 100 [%] of usability. Although to keep the parameters of printouts as high as possible, we recommend adding 10% of fresh powder each time.

Information provided within this document are average values for reference and comparison only. All tests were performed with print samples from Lisa/Lisa Pro printers. Parameters presented in this specification are subject to change without notice. Final part properties may vary based on printed part design, print orientation and material handling.

Mechanical properties

			Test method
Tensile Strength	3.7 ³	MPa	PN-EN ISO 37:2007
Elongation at Break	136	MPa	PN-EN ISO 37:2007
Shore hardness in type A scale	70/90 ⁴		PN-EN ISO 868:2005

Thermal properties

			Test method
Melting point	160	°C	internal procedure
Heat Deflection Temperature A at 1.8 MPa	67,6	°C	PN-EN ISO 3006:2014-02

3. It might need additional refresh with 50% in case of drop of surface quality (every few to over a dozen printouts).

4. Depending on printing settings and the design.

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