

Material's Technical Data Sheet

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

Compatible with:



FEATURES

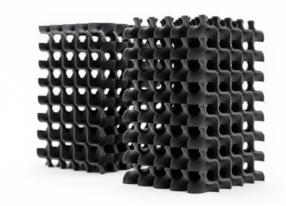
- flexible prints with increased extensibility
- adjustable hardness
- 100% reusable



APPLICATIONS

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

.





General information			Test method	
Material type	TPU			
Software	Sinterit Studio Basic			
Nitrogen needed	No			
Refresh ratio ¹	02	%		
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	

 Refresh ratio is the amount of refreshing powder that is required to be mixed after the printing with unsintered material.

 Fexa 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	70/904		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

It might need additional refresh with 50% in case of drop of surface quality (every few to over a dozen printouts).
Depending on printing settings and the design.

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