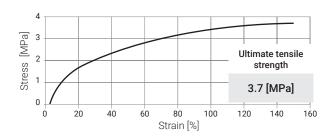


Flexible prints with increased extensibility | Adjustable hardness | 100% reusable



Tensile testing



While the tensile stress does not exceed 1.8 [MPa], after load release, the test specimens retain their shape, with no external damage observed (e.g. fractures). The test specimens fracture when max tensile stress of 3.7 [MPa] is applied.

General information Method Material type TPU Granulation 20 - 105 [μm] Color Grey Material refreshing ratio 1 0 [%] Compatible with 2 Lisa & Lisa Pro

Parameters

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

Thermal properties

Softening point (Vicat method type A50)	67.6 [°C]	PN-EN ISO 306:2014-02
Melting point	160 [°C]	Internal procedure
Printout density	0.74 [g/cm ³]	PN-EN ISO 845:2010
Printout water absorption	9.1 [%]	PN-EN ISO 62:2008

Applications

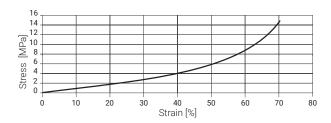
Easy elastic parts, vibration dampers, general prototyping of elastic parts.

Functions

Easy to process rubber, adjustable hardness (set up in Sinterit Studio).



Compression testing



While the compressive stress does not exceed 3.5 [MPa], after load release, the test specimens retain their shape, with no external damage observed (e.g. fractures).

After applying max compressive stress of 14.65 [MPa] and realeasing the compressive load, the test specimens irreversibly change their volume from: 14.50 [mm] x 14.50 [mm] x 15.30 [mm] to: 14.85 [mm] x 14.85 [mm] x 14.85 [mm].



¹ Material refreshing ratio - percent of Fresh powder which has to be mixed with Used (unsintered) powder - to be reused during next print. FLEXA has 100 [%] of usability. Although to keep the parameters of printouts as high as it is possible, we recommend adding 10% of fresh powder each time.

Information provided within this document are average values for reference and comparison only. Parameters presented in this specification are subject to change. Final part properties may vary based on printed part design and print orientation.

 $^{^{\}rm 2}$ Available as part of the appropriate profile purchased.

³ Depending on printing settings.