



Flexa Soft

Elastic and soft

Soft | Elastic prints



General information

General information		Method
Material type	TPU	
Granulation	50 - 80 [μm]	
Color	Light Grey	
Material refreshing ratio ¹	0 [%]	
Compatible with ²	Lisa ⁴ & Lisa Pro	

Parameters

Tensile Strength	1.8 [MPa]	PN-EN ISO 37:2007
Elongation at Break	137 [%]	PN-EN ISO 37:2007
Shore hardness in type A scale	45 / 58 ³	PN-EN ISO 868:2005

Thermal properties

Softening point (Vicat method type A50)	60.0 [$^{\circ}\text{C}$]	PN-EN ISO 306:2014-02
Melting point	150 [$^{\circ}\text{C}$]	Internal procedure
Printout density	0.77 [g/cm^3]	PN-EN ISO 845:2010
Printout water absorption	12.2 [%]	PN-EN ISO 62:2008

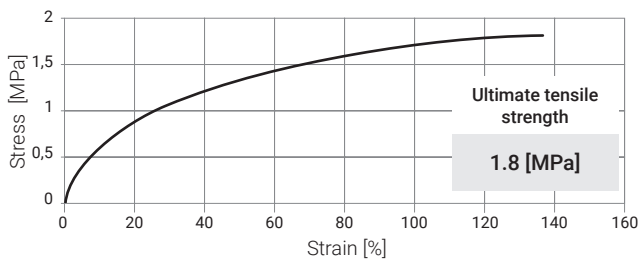
Applications

Haptic-touch parts, vibration dampers, soft elements, fashion design.

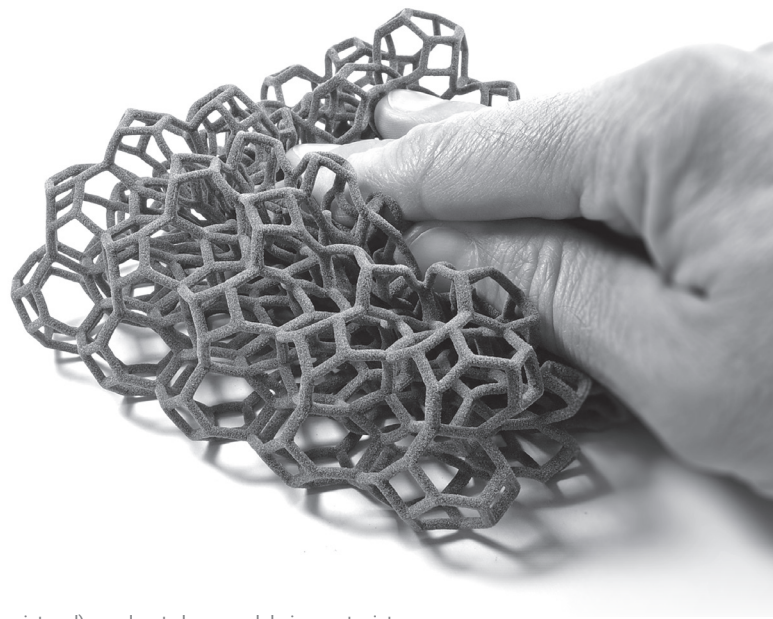
Functions

Low Shore hardness, elasticity, soft to touch.

Tensile testing



While the tensile stress does not exceed 0.8 [MPa], after load release, the test specimens retain their shape, with no external damage observed (e.g. fractures). The test specimens fracture when a max tensile stress of 1.8 [MPa] is applied.



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.

² Available as part of the appropriate profile purchased.

³ Depending on printing settings.

⁴ Compatible only with Lisa 1.5 or higher versions.

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.