

Flexa Soft

Material's Technical Data Sheet

Soft material that could be used in design, art and simulation of highly soft materials.

Compatible with:



FEATURES

- low Shore hardness
- elastic
- soft to touch

APPLICATIONS

- vibration dampers
- soft elements
- fashion design
- haptic-touch parts



General information

Test method

| | | | |
|----------------------------|--------------------------|-------------------|--------------------|
| Material type | TPU | | |
| Software | Sinterit Studio Advanced | | |
| Nitrogen needed | No | | |
| Refresh ratio ² | 0 ³ | % | |
| Colour | light grey | | |
| Particle size | 55-75 | µm | laser diffraction |
| Printout density | 0.77 | g/cm ³ | PN-EN ISO 845:2010 |
| Printout water absorption | 12.2 | % | PN-EN ISO 62:2008 |

1. Available on request.
2. Refresh ratio is the amount of refreshing powder that is required to be mixed after the printing with unsintered material.
3. 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 | 1.8 | MPa | PN-EN ISO 37:2007 |
| Elongation at Break | 137 | MPa | PN-EN ISO 37:2007 |
| Shore hardness in type A scale | 45-58 ⁴ | | PN-EN ISO 868:2005 |

Thermal properties

| | | | Test method |
|------------------------------|-----|----|------------------------|
| Melting point | 150 | °C | Internal procedure |
| Softening point (Vicat, A50) | 60 | °C | PN-EN ISO 3006:2014-02 |

4. Depending on printing settings and the design.

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