POLYPROPYLENE (PP)

PP material with good mechanical properties. Dedicated for prototyping of PP parts, as well as functional parts utilizing chemical resistance, weldability and ductility

General properties

Dedicated for	Lisa [2] & Lisa PRO [2]	
Nitrogen needed	No	
Printout density	>0.85g/cm^3	internal
Colour	Grey	internal
Refresh ratio [1]	50%	internal
Packaging	6kg	Metal bucket

Mechanical properties

Tensile Strength	19,3 MPa	PN-EN ISO 527-1:2012
Tensile modulus (Young)	820 MPa	PN-EN ISO 527-1:2012
Flexural Strength	25.6 MPa	PN-EN ISO 178:2011
Flextrual Modulus	670 MPa	PN-EN ISO 178:2011
Elongation at Break	44%	PN-EN ISO 527-1:2012
Impact strength (Charpy - unnotched)	30 kJ/m²	PN-EN ISO 179-1:2010

Thermal properties

Softening point (Vicat method type A50, 10N)	119 °C	PN-EN ISO 306:2014-02
Heat deflection temperature at 1.8 MPa / 0.45 MPa	50 / 85 °C	PN-EN ISO 75-2:2013-06 / PN-EN ISO 75-2:1998

Functions:

- Chemical resistance
- Low density enabling buoyancy
- No water absorption by polymer
- Recyclability
- Suitable for pneumatics
- Weldability with other PP parts

Applications:

- Automotive industry
  (Reservoirs, piping, housings)
- Plastic parts producers
  (Integrate with injection molded PP)
- Laboratories
  (Custom chemical tools,i.e holders or vessels)
- General prototyping of PP parts

[1] Refresh ratio is the amount of refreshing powder that is required to be mixed after the printing with unsintered material.
[2] Can be used only with Sinterit Studio Profiles or Advanced.

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.