



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
Flexrual Modulus	670 MPa	PN-EN ISO 178:2011
Elongation at Break	44%	PN-EN ISO 527-1:2012
Impact strength (Charpy - unnotched)	30 kJ/m ²	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:

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

Applications:

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