

Good quality to price ratio | Excellent surface quality and high level of recreated details | High chemical resistance



General information		Method
Material type	Nylon 12	
Granulation	18 - 90 [µm]	
Color	Navy Grey	
Material refreshing ratio ¹	22 [%]	
Compatible with ²	Lisa & Lisa Pro	
Parameters		
Tensile Strength	32 [MPa]	PN-EN ISO 527-2:2012
Elongation at Break	10 [%]	PN-EN ISO 527-2:2012
Impact resistance (Charpy test / unnotched)	16 [KJ/m²]	PN-EN ISO 179-1/1eU:2010
Shore hardness in type D scale	74	PN-EN ISO 868:2005
Thermal properties		
Melting point	185 [°C]	Internal procedure
Printout density	0.92 [g/cm ³]	PN-EN ISO 845:2010
Applications		

ΥP

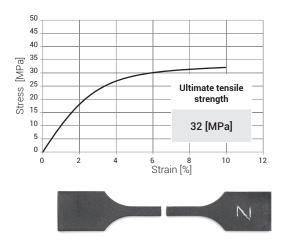
Rapid prototyping, detailed objects, functional parts of highest quality, low volume production of low stress parts, working mechanisms.

Functions

High details, smooth surface, high chemical resistance, regular mechanical properties.



Tensile testing



Charpy U- and V-notched impact testing

N٥	notch	KJ/m²
1.	U	5.23
2.	V	3.28

Charpy impact test results for specimens tested using pendulum of maximum energy of 50 [J], weight of 6.8 [kg] and length of 380 [mm].

Surface roughness

Roughness parameter	side surface	top surface
Ra	9.680 [µm]	6.470 [µm]
Rz	54.184 [µm]	31.633 [µm]

Roughness of test speciments surfaces printed with layer thickness of 100 [µm].

¹ Material refreshing ratio - percent of Fresh powder which has to be mixed with Used (unsintered) powder - to be reused during next print. ² Available as part of the appropriate profile purchased.

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.