

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	30 [%]	
Compatible with ²	Lisa & Lisa Pro	
Parameters		
Tensile Strength	41 [MPa]	PN-EN ISO 37:2007
Elongation at Break	13 [%]	PN-EN ISO 37:2007
Impact resistance (Charpy test / unnotched)	15 - 20 [KJ/m²]	Internal procedure
Shore hardness in type D scale	74	PN-EN ISO 868:2005
Thermal properties		
Softening point (Vicat method type A50 / B50)	172 / 155 [°C]	PN-EN ISO 306:2014-02
Melting point	182 [°C]	Internal procedure
Heat deflection temperature B	143 [°C]	PN-EN ISO 75-2:2013-06
Printout density	1.00 [g/cm ³]	PN-EN ISO 845:2010

Applications

Detailed printouts, structural or mechanical (with complicated internal geometry) elements, functional prototypes or final parts.

Charpy U- and V-notched impact testing

N°	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].

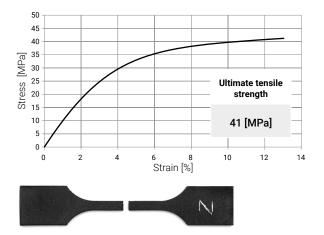
Surface roughness

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 $\mbox{[}\mu\mbox{m}\mbox{]}.$



Tensile testing



¹ Material refreshing ratio - percent of Fresh powder which has to be mixed with Used (unsintered) powder - to be reused during next print.

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.

² Available as part of the appropriate profile purchased.