



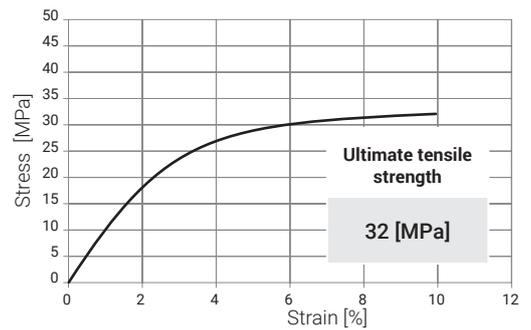
PA12 Smooth ^{v2}

High surface quality

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



Tensile testing



General information

Material type	Nylon 12
Granulation	18 - 90 [µm]
Color	Navy Grey
Material refreshing ratio ¹	26 [%]
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/m ²]	PN-EN ISO 179-1/1eU:2010
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	185 [°C]	Internal procedure
Printout density	0.92 [g/cm ³]	PN-EN ISO 845:2010

Applications

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

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.

Charpy U- and V-notched impact testing

N°	notch	KJ/m ²
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 specimens surfaces printed with layer thickness of 100 [µm].