



PA11 Onyx

Superior durability and resistance

High resistance against impacts | Moderate elasticity | Good chemical resistance | Dedicated only for LISA Pro



General information

Method

Material type	Nylon 11
Granulation	20 - 80 [µm]
Color	Black
Material refreshing ratio ¹	50 [%]
Compatible with	Lisa Pro

Parameters

Tensile Strength	54 [MPa]	PN-EN ISO 37:2007
Flexural Strength	62 [MPa]	PN-EN ISO 178:2011
Elongation at Break	40 [%]	PN-EN ISO 37:2007
Impact resistance at 7,5 [J] (Charpy test / unnotched)	min. 179 [KJ/m ²]	PN-EN ISO 179-1/1eU:2010
Shore hardness in type D scale	74	PN-EN ISO 868:2005
Printout density	0,92 [g/cm ³]	PN-EN ISO 845:2010
Printout water absorption	0,5 [%]	PN-EN ISO 62:2008

Thermal properties

Melting point	201 [°C]	Internal procedure
---------------	----------	--------------------

Applications

Jigs, fixtures, tools elements, covers, housings, enclosures, snap-fit designs, handles, hinges, connectors, impact-proof elements, thermoforming molds.



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.