



# 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 <sup>1</sup>	50 [%]
Compatible with	Lisa Pro

## Parameters

Tensile Strength	54 [MPa]	PN-EN ISO 37:2007
Elongation at Break	40 [%]	PN-EN ISO 37:2007
Impact resistance (Charpy test / unnotched)	min. 150 [KJ/m <sup>2</sup> ]	Internal procedure
Shore hardness in type D scale	76	PN-EN ISO 868:2005

## Thermal properties

Melting point	201 [°C]	Internal procedure
Printout density	1.00 [g/cm <sup>3</sup> ]	PN-EN ISO 845:2010

## Applications

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



<sup>1</sup> 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.