

**Powder FLEXA BLACK**  
product specification

GENERAL INFORMATION	
Status	Available
Category	Powder for SLS printing
Material type	Thermoplastic Polyurethane Elastomer (TPU)
PACKAGING	
Type	Plastic container
Weight	2 [kg] (4,4 [lb])
Dimensions	135 x 135 x 280 [mm] (5.3 x 5.3 x 11 [in])
MATERIAL	
Granulation	20-105 [µm] (0,79 - 4,13 [mil])
Colour	Black
Material refreshing ratio <sup>1</sup>	0 [%]
PARAMETERS	
Elongation at Break XY (%)	55 [%]
Tensile Strength	4,5 [MPa] (0.65 [ksi])
Softening point (Vicat method - A50)	82,3 [°C] (180.1 [°F])
Hit's suppressing	100 [%]
Hardness (A Shore scale)	80 / 90 (depending on print setting)
Abrasion resistance	63 [%]
Elastic / Young's modulus (E)	47,2 [MPa] (6.8 [ksi])
APPLICATIONS	
Mechanical Seals	
Anatomical Models	
Gaskets	
Isolating elements	

Informations provided within this document are typical 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.

<sup>1</sup> Material refreshing ratio - percent of Fresh powder which has to be mixed with Used (unsintered) powder - to be reused to the next print. FLEXA BLACK has 100 [%] of usability.