Preliminary

Product Information

INFINAM® PA 6002 P

POLYAMIDE-12 POWDER FOR ADDITIVE FABRICATION PROCESSES

INFINAM® PA 6002 P is a fine powder especially for the use in additive fabrication. It is characterized by a high toughness and softness. Our product is suitable for manufacturing of functional prototypes, manufacturing of individual units as well as serial parts. INFINAM® PA 6002 P is especially suitable for powder bed fusion technologies.

Features

- Exploitable on any type of system of powder-based additive fabrication
- Easy-to-process
- High process stability
- Excellent powder flow properties
- Excellent mechanical properties
- Excellent recyclability
- Excellent surface resolution and feature detail
- Nice surface finish
- Good chemical resistance

The information presented resembles typical values intended for reference and comparison purposes only. Due to layer-wise construction and by variation of processing conditions the actual properties of components from additive processes will vary. Due to process-related deviations the user is responsible to ensure the characteristic values required for the respective use and to carry out additional application-related tests if necessary.

Powder properties	dry / cond	Unit	Test Standard
Bulk density, powder	**470**	g/l	EN ISO 60
Density	**1020 / -**	kg/m³	ISO 1183
Powder flow	**25 / ***	s	ISO 6186
Particle size, D(50)	**58 / ***	µm	ISO 13320, DIN ISO 8130-13
Viscosity number	**1,65 / ***	cm³/g	ISO 307
Melting temp., DSC 1st heating, powder	**187 / ***	°C	ISO 11357

Properties of 3D printed parts acc. ISO	dry / cond	Unit	Test Standard
Tensile modulus flat X	**1700 / -**	MPa	ISO 527

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Tensile modulus on-edge Y	**1700 / -**	MPa	ISO 527
Tensile modulus upright Z	**1700 / -**	MPa	ISO 527
Tensile strength flat X	**50 / -**	MPa	ISO 527
Tensile strength on-edge Y	**50 / -**	MPa	ISO 527
Tensile strength upright Z	**50 / -**	MPa	ISO 527
Nominal strain at break flat X, εtB	**16 / -**	%	ISO 527
Nominal strain at break on-edge Y, εtB	**8 / -**	%	ISO 527
Nominal strain at break upright Z, εtB	**8 / -**	%	ISO 527

Characteristics

Key Features, Industrial Sector
Industry and Engineering, 3D Printing

Key Features, Processing
3D Printing

Key Features, Delivery form
Powder

Key Features, Electrical
Insulating

Key Features, Additives
Unfilled

Processing
Laser sintering

Special Characteristics
Semi-crystalline

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