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 common systems for 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 resistance against numerous chemicals

The features and properties presented are to be understood as typical and are 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	μ m	ISO 13320, DIN ISO 8130-13
Rel. solution viscosity	1,65 / *	-	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 Χ, εtΒ	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 SectorIndustry and Engineering, 3D Printing

Key Features, Processing 3D Printing

Key Features, Delivery form Powder

Key Features, Electrical Insulating

Key Features, AdditivesUnfilled

Processing

Additive manufacturing, Powder bed fusion

Special Characteristics Semi-crystalline

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