

Preliminary

Product Information

INFINAM® PA 6003 P

POLYAMIDE-12 POWDER FOR ADDITIVE FABRICATION PROCESS

INFINAM® PA 6003 P is a fine powder especially for the use in additive fabrication. Our product is suitable for manufacturing of functional prototypes, manufacturing of individual units as well as serial parts. INFINAM® PA 6003 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
- Good energy absorption over a wide wave length range

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	490	g/l	EN ISO 60
Density	1020 / -	kg/m ³	ISO 1183
Powder flow	18	s	ISO 6186
Particle size, D(50)	60	µm	ISO 13320, DIN ISO 8130-13
Rel. solution viscosity	1,62 / *	-	ISO 307
Melting temp., DSC 1st heating, powder	188 / *	°C	ISO 11357

Characteristics

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Key Features, Industrial Sector

Industry and Engineering, 3D Printing

Key Features, Processing

3D Printing

Key Features, Delivery form

Powder

Processing

Additive manufacturing, Powder bed fusion

Delivery form

Fine powder (FP)

Chemical Resistance

General chemical resistance

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