

**Product Information****INFINAM® PA 6014 P****POLYAMIDE-12 POWDER FOR ADDITIVE MANUFACTURING PROCESSES**

**INFINAM® PA 6014 P** is a fine powder especially for the use in additive manufacturing. It is characterized by a high toughness and black color. Our product is suitable for manufacturing of functional prototypes, manufacturing of individual units as well as serial parts. INFINAM® PA 6014 P is especially suitable for powder bed fusion technologies.

**Features**

- Nice surface finish in black color
- Homogeneously and solid-colored components
- Exploitable on common systems for powder-based additive manufacturing
- Easy-to-process
- High process stability
- Excellent powder flow properties
- Excellent mechanical properties
- Excellent surface resolution and feature detail
- Good resistance against numerous chemicals
- Improved UV resistance

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.

The results shown have been generated from a low number of production lots. Therefore, they are preliminary and not yet the result of a statistical evaluation.

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT [EVONIK-HP@EVONIK.COM](mailto:EVONIK-HP@EVONIK.COM)  
OR VISIT OUR PRODUCT AT [WWW.INFINAM.COM](http://WWW.INFINAM.COM)

Properties of 3D printed parts acc. ISO	dry / cond	Unit	Test Standard
Tensile modulus flat X	1900 / -	MPa	ISO 527
Tensile modulus on-edge Y	1900 / -	MPa	ISO 527
Tensile modulus upright Z	1850 / -	MPa	ISO 527
Tensile strength flat X	52 / -	MPa	ISO 527
Tensile strength on-edge Y	52 / -	MPa	ISO 527

Tensile strength upright Z	48 / -	MPa	ISO 527
Nominal strain at break flat X, tB	14 / -	%	ISO 527
Nominal strain at break on-edge Y, tB	14 / -	%	ISO 527
Nominal strain at break upright Z, tB	8 / -	%	ISO 527

Thermal properties	dry / cond	Unit	Test Standard
Melting temp., DSC 1st heating, powder	188 / *	°C	ISO 11357

Polymer analytics	dry / cond	Unit	Test Standard
Rel. solution viscosity	1.60 / *	-	ISO 307

Powder properties	Value	Unit	Test Standard
Bulk density, powder	420	g/l	EN ISO 60
Powder flow	27	s	ISO 6186
Particle size, D(50)	60	µm	ISO 13320, DIN ISO 8130-13

## Characteristics

### Key Features, Industrial Sector

Sustainable, Industry and Engineering, 3D Printing

### Key Features, Delivery form

Powder

### Key Features, Sustainability

RFP (reduced foot print)

### Key Features, Additives

Unfilled

### Key Features, Processing

3D Printing

### Processing

Additive manufacturing, Powder bed fusion

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