

Technical Data Sheet

Farsoon FS3300PA-F

Version	Change history	Approved & Issued
V01	New release (with limited data on reproducibility)	Date: Nov 29, 2019
V02	Update based on more data	Date: Feb 03, 2021

Product description:

PA1212-based plastic powder, considered for use in Powder Bed Fusion, e.g. Laser Sintering.

The black powder is optimized for absorbance of Fiber Laser Light for fast melting. It shows good oxidation resistance, good dimensional stability, excellent mechanical properties especially balance of strength and toughness, and easy for processing. Suitable for products with high mechanical properties and toughness requirements, parts manufacturing or smaller parts made with adhesives, as well as complex parts and plastic models, automotive pipelines, brake tubes, stocks, grips, trigger retainers, etc.

Supply Form:

Farsoon FS3300PA-F is supplied ready for processing in 10kg bags in a paper board box.

Product Safety:

Farsoon FS3300PA-F is considered for industrial use by professional workers only. Relevant industrial safety precautions must be followed whatever this product is being handled and processed. For additional information please consult the corresponding material safety data sheets.

Disclaimer:

Many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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General Properties	Test method	Typical values
Bulk Density	DIN EN ISO 60	0.45 – 0.55 g/cm3
Density of Parts	GB/T 1033	1,0 g/cm3
Color	ISO 11475	Black
Thermal Properties	Test method	Typical values
Melting Point	ISO 11357	179 - 185°C
Heat Deflection Temp (HDT) 1.8 MPa	GB/T 1040.2-2006	72 – 84°C
Heat Deflection Temp (HDT) 0.45 MPa	GB/T 1040.2-2006	138 – 153°C
Mechanical Properties	Test method	Typical values
Tensile Strength*	GB/T 1040.2-2006	36 – 50 MPa
Tensile Strength* Tensile Modulus*	GB/T 1040.2-2006 GB/T 1040.2-2006	36 – 50 MPa 1600 – 1900 MPa
0		
Tensile Modulus*	GB/T 1040.2-2006	1600 – 1900 MPa
Tensile Modulus* Elongation at Break*	GB/T 1040.2-2006 GB/T 1040.2-2006	1600 – 1900 MPa 5 – 21%
Tensile Modulus* Elongation at Break* Flexural Strength*	GB/T 1040.2-2006 GB/T 1040.2-2006 GB/T 1040.2-2006	1600 – 1900 MPa 5 – 21% 36 – 44 MPa
Tensile Modulus* Elongation at Break* Flexural Strength* Flexural Modulus*	GB/T 1040.2-2006 GB/T 1040.2-2006 GB/T 1040.2-2006 GB/T 1040.2-2006	1600 – 1900 MPa 5 – 21% 36 – 44 MPa 950 – 1100 MPa

* tested directly after built w/o pre-treatment

Application Example:



Sensor holders with wall thickness 0.3mm

Further Information:

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