

Technical Data Sheet

Farsoon FS3300PA

Version	Change history	Approved & Issued
V01	New release	Date: Aug 14, 2018
V02	Update data	Date: Jan 08, 2019
V03	Update new data	Date: Mar 06, 2020
V04	Update new data	Date: Sept 23, 2021

Product description:

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

The powder is stable in color, with good oxidation resistance, good dimensional stability, good paint spray performance, excellent mechanical properties, 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 is supplied ready for processing in 10kg bags in a paper board box.

Product Safety:

Farsoon FS3300PA 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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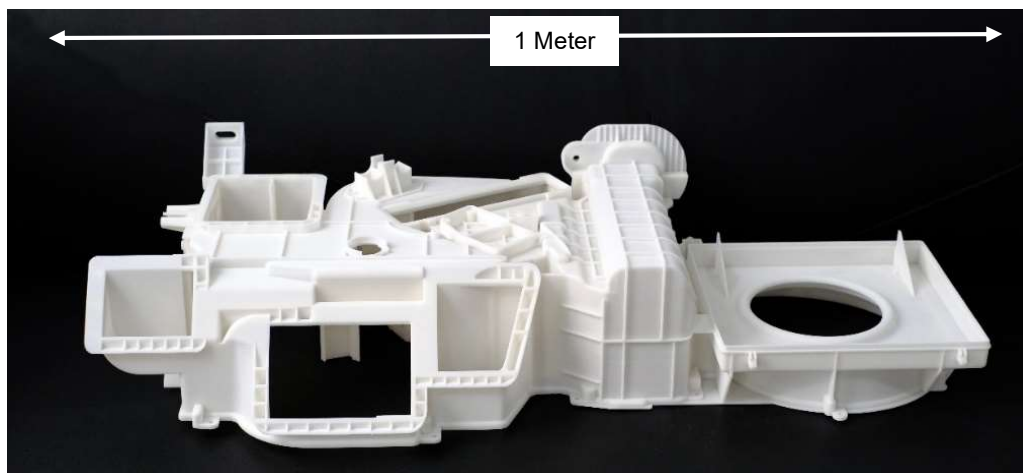
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V04	Update new data	Date: Sept 23, 2021

General Properties	Test method	Typical values
Bulk Density	DIN EN ISO 60	0.36 – 0.54 g/cm ³
Density of Parts		0.95 g/cm ³
Color	ISO 11475	White
Thermal Properties	Test method	Typical values
Melting Point	ISO 11357	179 - 187°C
Heat Deflection Temp (HDT) 1.8 MPa	GB/T 1040.2-2006	80 – 83°C
Heat Deflection Temp (HDT) 0.45 MPa	GB/T 1040.2-2006	140 – 146°C
Mechanical Properties	Test method	Typical values
Tensile Strength*	GB/T 1040.2-2006	38 – 47 MPa
Tensile Modulus*	GB/T 1040.2-2006	1500 – 1750 MPa
Elongation at Break*	GB/T 1040.2-2006	10 – 43%
Flexural Strength*	GB/T 1040.2-2006	39 – 42 MPa
Flexural Modulus*	GB/T 1040.2-2006	1200 – 1300 MPa
Impact Strength* (notched Izod)	GB/T 1843-2008	4 – 14 kJ/m ³
Impact Strength* (unnotched Izod)	GB/T 1843-2008	20 – 70 kJ/m ³
Fire resistant Properties	Test method	Typical values
Flammability for Bus Interior	UN-ECE R.118.03 Annex 8 (vertical)	Conform
Flammability of Vehicle Interior Materials	Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302)	Conform with thickness 10mm

* tested directly after built w/o pre-treatment

Application Example:



Further Information:

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