

Technical Data Sheet

Farsoon FS3200PA-F

Version	Change history	Approved & Issued
V01	New release	Date: Aug 27, 2024

Product description:

PA1012-based plastic powder is intended for use in Powder Bed Fusion processes, such as Laser Sintering. FS3200PA-F combines high flexibility and ductility with outstanding impact and chemical resistance, ensuring strong mechanical durability. It also offers superior surface finish for easy post-processing, as well as optimal size and color stability, making it ideal for demanding prototyping applications and serial production.

Supply Form:

Farsoon FS3200PA-F is supplied ready for processing in 10kg bags in a paper board box.

Product Safety:

Farsoon FS3200PA-F is intended for industrial use by trained professionals. It is important to adhere to all relevant safety precautions when handling and processing this product. For more detailed information, please refer to the corresponding material safety data sheets.

Disclaimer:

While various factors can influence the processing or application of our products, we suggest conducting your own tests to ensure the product meets your specific needs before use. Although we strive to provide accurate information, we cannot offer guarantees, including suitability for a particular purpose or compliance with intellectual property rights. We encourage you to verify that all relevant laws and proprietary rights are respected.

Please note that the information, descriptions, and designs provided are for reference only and are not part of our sales terms and conditions. Additionally, the information is offered free of charge, and while we aim to assist, we cannot assume liability for its use or the outcomes. We recommend using this information at your discretion and with careful consideration

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General Properties	Test method	Typical values
Bulk Density	DIN EN ISO 60	0.52 g/cm ³
Density of Parts	GB/T 1033	1.01 g/cm ³
Color		Black
Thermal Properties	Test method	Typical values
Melting Point	ISO 11357	185.5°C
Heat Deflection Temp (HDT) 1.8 MPa	GB/T 1040.2-2006	52°C
Heat Deflection Temp (HDT) 0.45 MPa	GB/T 1040.2-2006	145°C
Mechanical Properties	Test method	Typical values
Tensile Strength*	GB/T 1040.2-2006	42 MPa
Tensile Modulus*	GB/T 1040.2-2006	1450 MPa
Elongation at Break*	GB/T 1040.2-2006	25-40%
Flexural Strength*	GB/T 1040.2-2006	45 MPa
Flexural Modulus*	GB/T 1040.2-2006	1350 MPa
Impact Strength* (notched Izod)	GB/T 1843-2008	7 – 10 kJ/m ³
Impact Strength* (unnotched Izod)	GB/T 1843-2008	24 – 32 kJ/m ³

* Tested directly after built w/o pre-treatment

Application Example:



Further Information:

TEL: +49 711 1379 60; E-Mail: wehelpyou@farsoon-eu.com