

Technical Data Sheet

Farsoon FS6140GF

Version	Change history	Approved & Issued
V01	New release	Date: Jan 05, 2021

Product description:

Plastic powder consisting of PA6, silica glass powder, silica glass fibers, carbon black (as colorant) and additives. FS6140GF is 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 FS6140GF is supplied ready for processing in 15kg bags in a paper board box.

Product Safety:

Farsoon FS6140GF 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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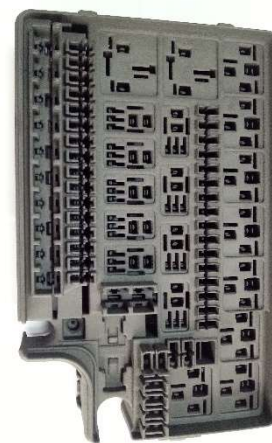
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General Properties:

	Test method	Typical values
Bulk Density	DIN EN ISO 60	0.6 – 0.73 g/cm ³
Density of Parts		1.4 g/cm ³
Color	ISO 11475	Black
Thermal Properties		
Melting Point	ISO 11357.:1997	225°C
Heat Deflection Temp (HDT) 1.8 MPa	ISO 75-2:2003	200°C
Heat Deflection Temp (HDT) 0.45 MPa	ISO 75-2:2003	219°C
Mechanical Properties		
Tensile Strength	ISO 527.2:1993 *	73 - 88 MPa
Tensile Modulus	ISO 527.2:1993	6500 - 6900 MPa
Elongation at Break	ISO 527.2:1993 *	1.6 – 1.9%
Flexural Strength	ISO 178:2001 *	110 - 130 MPa
Flexural Modulus	ISO 178:2001 *	5800 - 6200 MPa
Impact Strength (notched Izod)	ISO 180:2000 *	4 J/m ²
Impact Strength (unnotched Izod)	ISO 180:2000 *	13 J/m ²

* pre-treatment:24h, 23°C, 50%r.h.

Application Examples:



Further Information:

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