

Product Specification

VESTOSINT® 3D Z2773

3D-PRINTING: WE HAVE THE RIGHT MATERIALS

Evonik has developed and produced special plastic materials, which allow for the industrial production of high-tech components in using 3D printing technologies for years. Polyamide 12-based powders VESTOSINT® convince with their high quality and processing capabilities, and the property profile of each powder is perfectly matched to the respective 3D printing technology.

Due to their mechanical properties and chemical resistance as well as the high melting point of finished products, PA12 powders are particularly suitable for use in powder-based 3D printing processes.

CUSTOM POLYMER POWDER CERTIFIED FOR HP JET FUSION 3D PRINTERS

VESTOSINT® is a modified polyamide-based powder that is produced at Evonik's Marl site in Germany using the company's own special process. The powders are certified for HP Jet Fusion 3D printer.



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GENERAL PROPERTIES OF VESTOSINT® 3D Z2773

Property	Test method	Unit	Value
Bulk density	ISO 1183	g/cm ³	460
Particle size, d10	ISO 8130/13	µm	26
Particle size, d50		µm	57
Particle size, d90		µm	83
Relative solution viscosity (m-Kresol, acid measured)	ISO 307	-	1.59
DSC Melting point 1st heating, 20 K/min	ISO 11357	°C	187

Mean values - based on a statistical evaluation



MECHANICAL PROPERTIES OF VESTOSINT® 3D Z2773

Property	Test method	Unit	Value
Tensile Strength, Max Load ⁴ – XY	ASTM D638	MPa/psi	48/6960
Tensile Strength, Max Load ⁴ – Z	ASTM D638	MPa/psi	48/6960
Tensile Modulus ⁴ – XY	ASTM D638	MPa/ksi	1 700/245
Tensile Modulus ⁴ – Z	ASTM D638	MPa/ksi	1 800/260
Elongation at Break ⁴ – XY	ASTM D638	–	20
Elongation at Break ⁴ – Z	ASTM D638	%	15

⁴ Test results realized under the ASTM D638, specimens type V and provided by HP Inc. for informational purposes only.

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