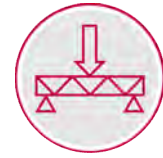


LUVOSINT® PA12 9270 BK PA12 Based 3D Printing Powder

- high strength and toughness
- low moisture uptake
- truly black grade
- high recyclability of used powders
- easy post processing - drilling, milling or mechanical smoothing.



STRUCTURAL



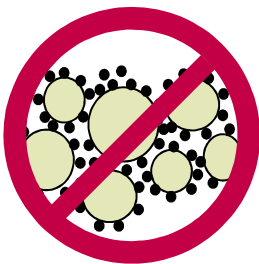
RESISTANT

Our LUVOSINT PA12 powder offers truly black parts due to the fact that powder is a black compound. Other black materials in the market are mixtures of natural colour PA12 powder and carbon black. Therefore our black powders offer better mechanical properties of parts and a clean and non-hazardous powder handling.

In difference to dye coloured black parts truly black parts stay black when scratches appear. Therefore LUVOSINT PA12 9270 BK is not only perfectly suitable for under-the-hood automotive applications but also generally for industrial production of black parts.

We also offer glass modified versions for higher stiffness on request.

Black colored compound solution offers perfect accuracy and mechanical properties of 3D printed parts as well as clean powder handling.



100 µm



Processing & Properties:

Processing of LUVOSINT PA12 9270 BK is similar to that of other PA12 powders but energy input should be decreased due to very good absorption of laser light. Mechanical properties highly depend on machine and process settings. The following properties were measured on printed parts printed on a standard 3D Systems platform. Please contact us for more detailed information.

Properties	Test method	Unit	Typical value
Specific gravity	ISO 1183	g/cm ³	1.01
Water absorption	23 °C / 24 h	%	0,8
Tensile modulus	ISO 527	GPa	1.74
Tensile strength	ISO 527	MPa	49
Elongation @ F _{MAX}	ISO 527	%	9
Charpy Impact strength	ISO 179	kJ/m ²	52
Onset Melting	DSC 10 K/min	°C	174
Onset Crystallization	DSC 10 K/min	°C	152

Our Material Competences



Europe & Head Office
Lehmann&Voss&Co. KG
Alsterufer 19
20354 Hamburg
Germany
Tel +49 40 44 197 250
E-mail luvocom@lehvoss.de

North America
LEHVOSS North America, LLC
185 South Broad Street
Pawcatuck, CT 06379
USA
Tel +1 855 681 3226
E-mail info@lehvoss.us

Asia
LEHVOSS (Shanghai) Chemical Trading Co., Ltd
Unit 4805 Maxdo Centre
8 Xingyi Road Changning District
Shanghai 200336
China
Tel +86 21 6278 5181
E-mail info@lehvoss.cn



LEHVOSS
Group

www.luvocom.com

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