

LUVOCOM 3F PA^{HT}® 50588 BL/L

High-temperature polyamide
with mineral filler, blue

Physical properties		Test method	Specimen	Units	Typical value
Specific gravity		ISO 1183		g/cm ³	1,30
Water absorption	23°C / 24h	ISO 62	ISO 3167 A	%	<0,2
Melt volume rate (MVR)		ISO 1133	pellet	cm ³ /10 min	6
Mechanical properties at 23°C / 50% rh					
Tensile strength	dry, @50 mm/min	ISO 527	ISO 3167 A	MPa	83
Elongation @Fmax.	dry, @50 mm/min	ISO 527	ISO 3167 A	%	4,0
Tensile modulus	dry, @1 mm/min	ISO 527	ISO 3167 A	GPa	3,8
Impact strength	dry	ISO 179 1eU	80x10x4mm	kJ/m ²	81

Main features

Very strong and stiff parts; low coefficient of thermal expansion. Low influence from moisture and temperature on dimensional stability and electrical properties, compared with PA66.

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Recommended processing parameters

General

3D Printing parameters may vary from machine to machine. The following settings may be used as an indication: nozzle temperature: 265 - 290 °C / nozzle material: abrasion resistant / print bed temperature: > 50 °C / layer thickness: > 0,2mm / printing speed 40 - 60 mm/s.

The processing notes provided merely represent a recommendation for general use. Due to the large variety of machines, geometries and volumes of parts, etc., it may be necessary to employ different settings according to the specific application. Please contact us for further information.

Delivery form & storage

Unless indicated otherwise, the material is delivered as 3mm long pellets in sealed bags on pallets. Preferably storage should be effected in dry and normally temperatured rooms.

Predrying

It is advisable to predry the granules with a suitable dryer immediately before processing. The granule may absorb moisture from the environment.

Dryer type	Temperature °C	Drying time in h
Dehumidifying dryer	130	6 - 8
Vacuum Dryer	120	4 - 6

Recommended processing parameters

In general LUVOCOM® 3F can be processed on conventional extrusion machines while observing the usual technical guidelines. Any added fibrous materials or fillers may have an abrasive effect. In this case the cylinder, screw and die should be protected against wear as is usual in the processing of reinforced thermoplastic materials. Lengthy dwell times for the melts in the cylinder should be avoided. Lower the temperatures during interruptions!

Nozzle	Zone 3	Zone 2	Zone 1
250 - 290 °C	260 - 300 °C	260 - 300 °C	260 - 300 °C

Additional information

Filaments produced from this material may be wound into standard size spools.

50588 16 11 22

Europe and Head Office

Lehmann&Voss&Co. KG
Alsterufer 19
20354 Hamburg
Germany
Tel +49 40 44 197-0
Email: luvocom@ehvoss.de

North America

LEHVOSS North America Inc.
185 South Broad Street
Pawcatuck, CT 06379
USA
Tel +1-855-681-3226
Email: info@ehvoss.us

Asia

LEHVOSS (Shanghai) Chemical Trading Co., Ltd.
Unit 4805, 8 Xingyi Road
Changning District, Shanghai 200336
China
Tel +86 21 62785181
Email: info@ehvoss.cn

