

LUVOCOM® 3F PP CF 9928 BK

LUVOCOM® 3F PP CF 9928 BK is polypropylene copolymer reinforced with carbon fiber. LUVOCOM® 3F PP CF 9928 BK is a material from LEHVOSS. It is suitable for continuous discharging of statically-generated electricity. Recommended for strong and stiff parts.

Material features:

- Strong and stiff parts
- Inherent good chemical resistance
- ESD surface resistance $10^7 \Omega$
- Low warpage

Colours:

LUVOCOM® 3F PP CF 9928 BK is available in the colour black.

NA1



Packaging:

LUVOCOM® 3F PP CF 9928 BK is available on polycarbonate and carton spools. Ask our team to help you customizing your product.

Filament specs.

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1 g/cc
Tensile strength at yield	ISO 527	54 MPa
Elongation strain at yield	ISO 527	1,2%
Tensile (E) modulus	ISO 527	7000 MPa
Flexural strength	ISO 178	78 MPa
Flexural modulus	ISO 178	6000 MPa
Vicat softening temp. A	ISO 306	80°C
Mold shrinkage	DIN 16742	0,2-0,6%
Water absorption 23°C	ISO 62	<0,3%
Surface resistance	IEC 60093	≤10 ⁷ Ω
Printing temp.	Internal method	225±5°C

Additional info:

Recommended temperature for heated bed is ± 65-75°C. Adhesion is possible on different surfaces. Please consider special PP adhesives for 3D-printing. LUVOCOM® 3F PP CF 9928 BK can be used on all common desktop FDM technology or FFF 3D printers. Level of electrical dissipative properties depends on printing conditions. Dry the spool before printing: 4-6 hours at max. 80 °C.

**Please consider the use of a hardened steel nozzle when printing with LUVOCOM® 3F PP CF 9928 BK. The carbon fibers are abrasive and will result in fast wear of regular brass nozzles.*

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

The values presented in this publication are based on MCPP's knowledge and experience and are intended for reference purposes only. While MCPP has made every reasonable effort to ensure the accuracy of the information in this publication, MCPP does not guarantee that it is error-free, nor does MCPP make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. MCPP reserves the right to make any adjustments to the information contained herein at any time without notice. MCPP expressly disclaims warranties of any kind regarding the information contained herein, including, but not limited to, any warranties of merchantability or fitness of a particular purpose, use or application. MCPP shall not be liable for any damage, injury or loss induced from the use of MCPP's products in any application. Each user should thoroughly review this publication before selecting a product and, in view of the many factors that may affect processing and application of the product, each user should carry out their own investigations and tests and determining the safety, lawfulness, technical suitability, proprietary rights, and disposal/ recycling practices of the materials for the intended application.