

# LUVOCOM® 3F PP CF 9928 BK

LUVOCOM® 3F PP CF 9928 BK is polypropylene copolymer reinforced with carbon fiber. LUVOCOM® 3F PP This is a polypropylene (PP) copolymer reinforced with carbon fibres - make it ideal for 3D printing strong & stiff parts. It is suitable for continuous discharging of statically-generated electricity (ESD safe).

## Material features:

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



## 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	≤ $10^7 \Omega$
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.