

# **LUVOCOM® 3F PEKK 50082 NT**

LUVOCOM® 3F PEKK 50082 NT (Polyether Ketone Ketone) is a semi-crystalline thermoplastic in the polyaryletherketone family. LUVOCOM® 3F PEKK 50082 NT is a material from LEHVOSS. This material has a very good layer adhesion and dimensional stability. LUVOCOM® 3F PEKK 50082 NT is unique compared to the standard PEKK materials because it prints semi crystalline, and it provides improved printability and layer adhesion. This neat PEKK enables semi-crystalline parts with no warping.

## Material features:

- Outstanding temperature and chemical resistance
- Excellent mechanical properties
- Flame retardant
- Unique tribological properties

## Colours:

LUVOCOM® 3F PEKK 50082 NT is available in the colour natural.

NA1



## Packaging:

LUVOCOM® 3F PEKK 50082 NT 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	1,27 g/cc
MFI 380°C/2,16kg	ISO 1133	25 g/10min
Tensile strength at yield	ISO 527	90 MPa
Elongation strain at yield	ISO 527	5%
Tensile (E) modulus	ISO 527	3000 MPa
Flexural strength	ISO 178	150 MPa
Flexural modulus	ISO 178	2500 MPa
Heat deflection temp. A (1,8MPa)	ISO 75 (printed)	160°C
Flammability behaviour	UL94	V-0
Mold shrinkage	DIN 16742	0,2-0,4%
Printing temp.	Internal Method	360±20°C

## Additional info:

Recommended temperature for heated bed is  $\geq 110^{\circ}\text{C}$ . Adhesion is possible on different surfaces. LUVOCOM® 3F PEKK 50082 NT can be used on desktop FDM or FFF technology 3D printers able to reach the required temperatures. Dry the spool before printing: 6-8 hours at max.  $120^{\circ}\text{C}$  or 4 hours at  $130^{\circ}\text{C}$ . It is required to print with a heated chamber  $\geq 80^{\circ}\text{C}$ . Storage: Cool and dry ( $15-25^{\circ}\text{C}$ ) and away from UV light. This enhances the shelf life significantly.

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