

# LUVOCOM® 3F PEKK 50082 NT

LUVOCOM® 3F PEKK 50082 NT (Polyether Ketone Ketone) is a semi-crystalline thermoplastic in the polyaryletherketone family. 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
- \*Yellow card not available*

**Colours:**

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

NA1

**Packaging:**

LUVOCOM® 3F PEKK 50082 NT is available on our standard transparent reel.\*

Ask our team to help you customizing your product.

*\*Dry +4 hours at max.110°C*



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/cm <sup>3</sup>
MVR 380°C/2.16kg	ISO 1133	20cm <sup>3</sup> /10min
Tensile strength	ISO 527	90 MPa
Elongation	ISO 527	5%
Tensile (E) modulus	ISO 527	3000 MPa
Flexural strength	ISO 178	150 MPa
Flexural modulus	ISO 178	2500 MPa
Mold shrinkage	DIN 16742	1.0-1.6%
Printing temp.	Internal Method	340±20°C

**Additional info:**

Recommended temperature for heated bed is >110°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. For maximum performance of printed parts annealing is recommended.

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