

# LUVOCOM® 3F PEEK 9581 NT

LUVOCOM® 3F PEEK 9581 NT is based on polyetheretherketone (PEEK), one of the **highest performing engineering** thermoplastics in the world and is able to replace metals and composites. LUVOCOM® 3F PEEK 9581 NT is an unreinforced grade and can be used for multiple applications in different industries; aerospace-, gas-, oil-, automotive- and the medical industry. This semi crystalline thermoplastic provides **high temperatures**, excellent mechanical and chemical resistance properties. The excellent layer adhesion of LUVOCOM® 3F PEEK 9581 NT improves the impact resistance, strength, durability and the printing process.

## Material features:

- Outstanding temperature and chemical resistance
- High strength, including z-layers
- Flame retardant\*
- Cytotoxicity proliferation according EN ISO 10993-1  
\*Yellow card not available

## Colours:

LUVOCOM® 3F PEEK 9581 NT is available in natural colour.

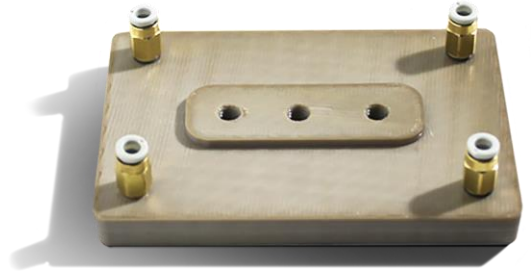
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## Packaging:

LUVOCOM® 3F PEEK 9581 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	1.31 g/cm <sup>3</sup>
MFI 380°C/10kg	ISO 1133	29 g/10 min
Tensile strength at yield	ISO 527	97 MPa
Elongation-strain at yield	ISO 527	5%
Tensile (E) modulus	ISO 527	3800 MPa
Flexural strength	ISO 178	145 MPa
Flexural modulus	ISO 178	3400 MPa
Impact strength charpy method 23°C – notched	ISO 179 1eA	7 kJ/m <sup>2</sup>
Heat deflection temp.	ISO 75	145°C
Printing temp.	Internal method	395±25°C

## Additional info:

Recommended temperature for heated bed is >110°C. Adhesion is possible on different surfaces.

LUVOCOM® 3F PEEK 9581 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.