



WE LUVOCOM® 3F PEEK CF 9676 BK

LUVOCOM® 3F PEEK CF 9676 BK has outstanding mechanical properties in combination with its excellent thermal and chemical resistance. LUVOCOM® 3F PEEK CF 9676 BK is a material from LEHVOSS. LUVOCOM® 3F PEEK CF 9676 BK is a flame retardant polyetheretherketone, reinforced with carbon fibers. The carbon fiber improves the stiffness and compressive strength enormously. This material is suitable for dynamically-stressed parts, aerospace applications and applications which require inherent flame resistance.

Material features:

- Outstanding temperature and chemical resistance
- Very high strength and stiffness
- Suitable for dynamically-stressed parts
- Flame retardant
- Low smoke and toxic gas emissions

LUVOCOM® 3F PEEK CF 9676 BK is available in the colour black.





LUVOCOM® 3F PEEK CF 9676 BK is available on polycarbonate and carton spools. Ask our team to help you customizing your product.



Material properties		
Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,36 g/cc
MFI 380°C/10kg	ISO 1133	16 g/10min
Tensile strength at yield	ISO 527	126 MPa
Elongation strain at yield	ISO 527	3,9%
Tensile (E) modulus	ISO 527	7800 MPa
Impact strength charpy method 23°C - notched	ISO 179 1eA	7 kJ/m²
Flammability behaviour	UL94	V-0
Heat deflection temp. A (1,8MPa)	ISO 75	280°C
Mold shrinkage	DIN 16742	0,2-0,4%
Printing temp.	Internal method	425±25°C

Additional info:

Recommended temperature for heated bed is ≥110°C. Adhesion is possible on different surfaces. LUVOCOM® 3F PEEK CF 9676 BK 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°C or 4 hours at 130 °C. *Please consider the use of a hardened steel nozzle when printing with LUVOCOM® 3F PEEK CF 9676 BK. The carbon fibers are abrasive and will result in fast wear of regular brass nozzles. Note: brass nozzles are not allowed this contains copper which is reactive with PEEK.

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

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