

Datasheet

FEP Filament

Fluorinated Ethylene Propylene (FEP) is a fully fluorinated polymer, a family of plastics well known for its anti-stick properties. FEP is an extrudable material and brings the properties of fluoropolymers to 3D printers. Apart from the anti-stick properties, it has a low coefficient of friction and very high weathering and UV stability.

Key properties

- Outstanding chemical resistance
- High thermal stability (service temperature rating up to more than 200 °C)
- Extremely low flammability

Measurements & Tolerances

Diameter	Tolerance	Roundness
1,75 mm Filament	+/- 0,05 mm	99%

Moisture content	< 0,05%
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Physical properties

Description	Value	Test method
Density	2,16 g/cm ³	

Mechanical properties

Description	Value	Test method
Tensile Strength at break	30 Mpa	
Elongation at break	350%	
UL rating	V0	

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Printer settings

Description	Value
Printer nozzle temperature	320 – 380°C
Melting point	258°C
Heated platform temperature	± 140°C
Printing speed	20 – 25 mm/s
Layer height	0,2 mm
Bed material	FEP film on glass

Warning: FEP must be handled with care: if overheated, fumes can be toxic for humans. Vapour extractor units should be installed above processing equipment. When cleaning processing equipment, do not burn off any of this product with a naked flame or in a furnace.

To get the best results while printing we advise you to keep the 3D printer in a room where there is hardly any draft and/or temperature fluctuations. This cannot be a room where people sleep.

When the 3D printer is not being used it is important to keep the FEP Filament in a bag and store it in a cool, dry and dark place.