



Description

PET-CF15 is a PET (Polyethylene terephthalate) based material reinforced with 15% carbon fiber. Its high stiffness, heat resistance and impact resistance make it suitable for many technical applications. It is recommended to use a hardened nozzle made of e.g. steel due to the abrasive properties of the material.

Identification

Name	PET-CF15
Chemical Name	Polyethylene terephthalate with carbon fiber
Usage	FDM 3D Printing
Manufacturer	Material 4 Print GmbH & Co. KG, Germany

Properties

Test	Value	Method
Specific Gravity	1,4 g/cm ³	ISO 1183-3
Water absorption	<0,3%	ISO 62
Tensile Strength	80 MPa	ISO 527
Elongation at max. force	2,5%	ISO 527
Modus of elasticity	9 GPa	ISO 527
Flexural Strength	130 MPa	ISO 178
Flexural elongation at max. force	3,5%	ISO 178
Flexural Modulus	8 GPa	ISO 178
Charpy impact strength	40KJ/m ²	ISO 179 1eU
Service temperature	125°C	during lifetime max. 200h
Flammability	HB	UL-94

If you have any further questions about the product or problems in its use, please contact info@material4print.de



Certificate



Certification depends on colors in the final product. More info in the additional information sheet.

Storage

Store at room temperature, out of direct heat and sunlight and in a dry place.

Print Settings

Nozzle Temperature: 245-270 °C
Bed Temperature: 60-80 °C