

Material Data Sheet

PAHT-CF15

**MATERIAL
4PRINT**

your filament experts



Layer adhesion



Weather resistance



Easy to print



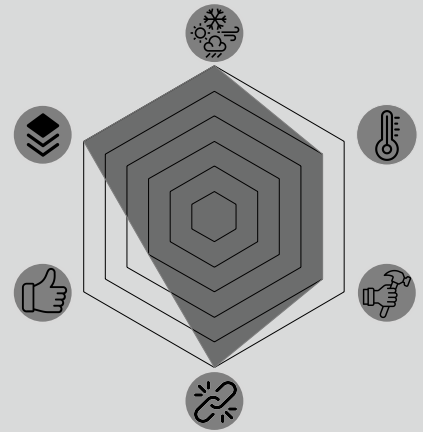
Heat resistance



Tensile strength



Impact resistance



Description

Our PAHT-15 is a high-performance polyamide-based filament with a carbon fibre content of 15%. It combines very high mechanical strength with very good heat resistance. Compared to other nylon filaments, its water absorption is significantly lower.

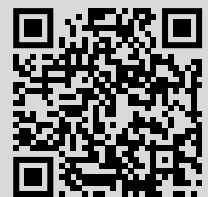
Identification

Name	PAHT-CF15
Chemical Name	Polyamide high temperature carbon fiber
Usage	FDM 3D Printing
Manufacturer	Material 4 Print GmbH & Co. KG, Germany

Properties

Test	Value	Method
Density	1,24 g/cm ³	ISO 1183-3
Water absorption (23°C/24h)	<0,3 %	ISO 62
Tensile strength	120 MPa	ISO 527
Elongation at break	2 %	ISO 527
Elastic modulus	10,5 GPa	ISO 527
Impact resistance	35 KJ/m ²	ISO 179 1eU
Heat deflection temperature (HDTA)	90 °C	ISO 75
Continuous use temperature (20.000h)	120 °C	IEC 60216
Service temperature (max. 200h)	160 °C	
Surface resistance	10 ⁸ - 10 ¹⁰ OHM	ASTM D257

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: 260-290 °C
Bed Temperature: >50 °C
Dry before use: 4 h at 100 °C or 12 h at 70 °C

These data were taken from the raw material manufacturer.

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Contact: info@material4print.de