CARBON FIBER

Technical Data Sheet (Ver. 1.1,
latest update: February 2023)

Composite carbon fiber pre-impregnated with high-temperature polymer PEEK is a reinforcing material manufactured for using in PROM IS 500 industrial 3D printer.

Its unique strength properties allow to enhance the durability and achieve superior performance.

CCF-HT 3k COMPOSITE CARBON FIBER PROPERTIES

Effective diameter, mm	VF, %	Elastic modulus, GPa	Tensile strength, MPa
0.5	58	127	2290

PLASTIC REINFORCED WITH CCF-HT 3k

PARAMETER	CCF-HT 3k + PEKK-A
Density, g/cm3	1.420
Tensile ultimate stress in fiber direction, MPa	955 ± 25
Tensile modulus in fiber direction, GPa	72 ± 4
Compressive ultimate stress in fiber direction, MPa	565 ± 15
Compressive modulus in fiber direction, GPa	57 ± 3
Flexure strength, MPa	625 ± 25
Flexure modulus, GPa	63 ± 4

NOTE:
The test data was obtained applying standard and nonstandard specific test methods. All the test results are preliminary but not final and should be considered as reference. The data cannot be used for design and analysis of certain parts. Anisoprint provides no warranties on the use of this data.