

EON PA-CF

EON PA-CF is a high-strength thermoplastic with excellent heat resistance, surface finish and chemical resistance. Chopped carbon fiber is what is mixed into this filament giving it high stiffness and strength. This material is 1.4 times stronger and stiffer than ABS and is perfect for anything from tooling and fixtures to end-use parts.

Mechanical Properties	Typical Value	Test Method
Tensile Modulus	2,4 GPa	D638
Tensile Strain at Yield	40 MPa	
Tensile Stress at Break	37 MPa	
Tensile Strain at Break	25 %	
Flexural Strength	71 MPa	D790 (1)
Flexural Modulus	3,0 GPa	
Izod Impact	330 J/m	D256-10 A

Thermal Properties	Typical Value	Method
Heat Deflection Temperature	145° C	D648 B

Other Properties	Typical Value	Method
Density	1,2 g/cm ³	-

Notes:

1) Measured by a method similar to ASTM D790. Composite Base -only parts do not break before end of flexural test.