



Perform✓A12CF

Technical Data Sheet

- Perform✓A12CF is an Ultra high performance Polyamide 12 (Nylon 12) filament reinforced with Carbon Fibers designed to work on FFF printers for the realization of functional parts.
- Perform✓A12CF has superior stiffness and toughness, coupled with excellent chemical resistance and outdoor durability

Typical Properties

Property	Test Method	Unit	Typ. Value
Nominal Diameter	-	mm	1.75 / 2.85
Density	ISO 1183	gr/cm ³	1.08
Flexural Modulus	ISO 178	MPa	2200
Tensile Strength	ISO 527	MPa	56
Flexural Strength	ISO 178	MPa	68
UnN. Izod Impact	ASTM D256	J/m	685
Elongation	ISO 527	%	15%
HDT @ 0.45 MPa	ISO 75	°C	135

* The above are typical properties for a printed specimen

Recommended Settings

Parameter	Unit	Set Value
Nozzle Temp.	°C	250-270
Plate Temp.	°C	100
Cooling	-	Off
Print Speed	mm/sec	30-80
Retraction (Bowden)	mm	> 5
Retraction (Direct)	mm	1.5±0.5
Drying	°C, hr	80, 4

- Perform✓A12CF adheres well on heated PEI surface or Glass with PA adhesive (washable purple stick)