

Perform ✓ PCF

Technical Data Sheet

- ✓ Perform ✓ PCF is a high performance Polypropylene Carbon Fiber filament with improved bed adhesion and minimal shrinkage, designed to work on FFF printers.
- ✓ Perform ✓ PCF has good functional properties, great temperature resistance and excellent dimensional stability.

Typical Properties

Property	Test Method	Unit	Typ. Value
Nominal Diameter	-	mm	1.75 / 2.85
Density	ISO 1183	gr/cm ³	0.97
Flexural Modulus	ISO 178	MPa	3966
Flexural Strength	ISO 527	MPa	39
Impact Strength IZOD (Notched)	ASTM D256	J/m	131

* The above are typical properties for a printed specimen

Recommended Settings

Parameter	Unit	Set Value
Nozzle Temp.	°C	220 ±10
Plate Temp.	°C	105 ±10
Cooling	-	On, low
Print Speed	mm/sec	30-80
Retraction	mm	>6
Brim	mm	>25

Perform ✓ PCF is prone to separation from platform. Therefore, the use of PP adhesion sheets is strongly recommended. Using glue stick as an alternative adhesion method will be insufficient for reliable adhesion of large prints.

Perform ✓ PCF is an abrasive material which requires a hardened steel or ruby nozzle.

Disclaimer:

Typical properties and recommendations should be regarded as guideline values and not specifications. It is on the user responsibility to carefully evaluate the suitability of the material and its properties to the application.