



PolyMide™ PA6-CF

SKU: PM70244

PolyMide™ is a family of Nylon/polyamide based filaments. Produced with Polymaker's Warp-Free™ technology, PolyMide™ filaments deliver engineering properties intrinsic to Nylon and ease of printing.

PolyMide™ PA6-CF is a carbon fiber reinforced PA6 (Nylon 6) filament. The carbon fiber reinforcement provides significantly improved stiffness, strength and heat resistance with outstanding layer adhesion.

Colour-Black

Diameter size-1.75mm, 2.85mm

Net weight-2Kg, 500g

RECOMMENDED SETTINGS

Nozzle Temperature:

280°C – 300°C *

Printing Speed:

30mm/ – 60mm/s

Bed Temperature:

25°C – 50°C (Do NOT exceed 50 °C)

Bed Surface:

almost any surface with a thin coat of PVA glue or Magigoo PA

Cooling Fan:

OFF

MECHANICAL PROPERTIES

Young's Modulus:

7453 ± 656 (MPa)

Tensile Strength:

105.0 ± 5.0 (MPa)

Bending Strength:

169.0 ± 4.7 (MPa)

Charpy Impact Strength:

13.34 ± 0.52 (kJ/m²)

THERMAL PROPERTIES

Heat Deflection Temperature

(ISO 75 1.8 MPa):

196 °C

Heat Deflection Temperature

(ISO 75 0.45 MPa):

215 °C

Melting Temperature:

220 (°C)

NOTES

Drying Settings:

100°C for 8h

Recommended Support Materials:

PolyDissolve™ S1

Other:

Annealing 80°C 6h

Sheet Resistance in Moisture State
(ASTM D991, GB/T 2439, ISO 1853)

1 – 10 ($10^8 \Omega/\text{sq}$)
