

ThermaTech PA

MATERIAL PROPERTIES

Density	1.30 g/cm ³	ISO 1183
Mechanical properties		
Charpy impact strength		
Unnotched, injection moulding	30 kJ/m ²	ISO 179-1eU
Notched, injection moulding	3.8 kJ/m ²	ISO 179-1eA
Tensile elongation (speed 5mm/min)		
At yield, injection moulding	2.7%	ISO 527 (1)
At break, injection moulding	3.4%	ISO 527 (1)
Tensile strength (speed 5mm/min)		
At yield, injection moulding	55 MPa	ISO 527 (1)
At break, injection moulding	50 MPa	ISO 527 (1)
Elastic modulus		
Tensile (speed 1 mm/min), injection moulding	6300 MPa	ISO 527 (1)

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature - standard speed	250-280°C
Bed temperature	60-80°C
Active cooling fan	Up to 100%
Layer height**	0.40 - 2.70mm
Shell thickness**	0.05 - 0.30mm
Closed chamber	recommended for larger prints
Dry box	not necessary
Ruby or hardened nozzle	not necessary
Adhesive	recommended (Magigoo PA)
Drying (if wet)	recommended***

* settings are based on a 0.4mm nozzle

** depending on the geometrical complexity

*** at least 6h at 85°C using a hot dry air oven

DESCRIPTION

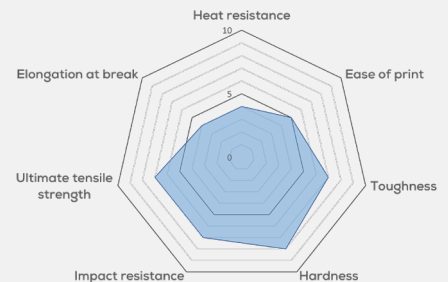
ThermaTech PA is a high-performance 3D printing filament designed for efficient heat dissipation and excellent electrical insulation. It combines lightweight durability with advanced thermal conductivity, making it perfect for high-temperature applications.

FEAUTURES

- High thermal conductivity
- Excellent electrical insulation
- Incorporates ceramic filler
- Ideal for heat dissipation applications
- Lightweight and durable

STORAGE AND SHELF LIFE

Filament should be stored in a dry room at room temperature. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months.



SUPPORT

If you have any questions or experience any issues, please do not hesitate to contact us at support@spectrumfilaments.com