

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

Disclaimer

The product- and technical data provided in this datasheet is correct to the best of Spectrum Group Sp. z o.o. knowledge and are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary according to printing conditions, model complexity, environmental conditions, etc. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. Spectrum Group Sp. z o.o. shall not be made liable for any damage, injury or loss induced from the use of Spectrum Group Sp. z o.o. materials in any particular application.

DESCRIPTION

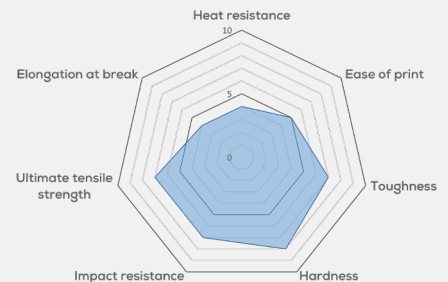
ThermaTech PA is a high-performance 3D printing filament designed for efficient heat dissipation and excellent electrical insulation. It combines lightweight durability with advanced thermal conductivity, making it perfect for high-temperature applications.

FEAURES

- 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