

Pellet ABS Kevlar

MATERIAL PROPERTIES

1.05 g/cm ³	ISO 1183
14 kJ/m ²	ISO 179-1eU
6.1 kJ/m ²	ISO 179-1eA
1.9%	ISO 527 (1)
6,00%	ISO 527 (1)
35 MPa	ISO 527 (1)
30 MPa	ISO 527 (1)
2350 MPa	ISO 527 (1)
95°C	ISO 306
88°C	ISO 75
75°C	ISO 75
	1.05 g/cm ³ 14 kJ/m ² 6.1 kJ/m ² 1.9% 6,00% 35 MPa 30 MPa 2350 MPa 95°C 88°C 75°C

*speed 5mm/min

** 50 N (heating rate 50°C/h), injection moulding

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	250-270°C
Bed temperature	100°C
Active cooling fan	0 - 25%
Closed chamber	not necessary
Dry box	not necessary
Ruby or hardened nozzle	recommended

* settings are based on a 0,4 mm nozzle.

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 Spectum Group Sp. z o.o. materials in any particular application.

DESCRIPTION

Spectrum Pellet ABS Kevlar is characterized by properties identical to the Spectrum ABS Kevlar filament - a material based on classic ABS enriched with aramid fibers. The material is characterized by higher strength and increased resistance as compared to standard ABS. The adjustments done ensure reduced processing shrinkage, very good adhesion to the working platforms and reduced density, resulting in slightly lighter prints than their counterparts manufactured using standard ABS.

FEAUTURES

- industrial-grade material
- material enriched with aramid fibres
- high rigidity and impact strength
- high mechanical strength
- very strong layer lamination

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