Spectrum FILAMENTS

TECHNICAL DATA SHEET

PET-G FX120

MATERIAL PROPERTIES

Specific Gravity	1.13 g/cm³	D 792
Mechanical Properties		
Tensile Stress @ Yield	14 MPa	D 638
Tensile Stress @ Break	22 MPa	D 638
Elongation @ Yield	38,00%	D 638
Elongation @ Break	400,00%	D 638
Flexural Modulus	150 MPa	D 790
Tear Strength	350 N	D 790
Izod Impact Strength, Notched @ -40°C	40 J/m	D 256
Durometer Hardness		
Shore D Scale	55	D 2240
Shore A Scale	95	D 2240
Thermal Properties		
Brittleness Temperature	≤ 70°C	D 746
Vicat Softening Temperature	170°C	D 1525

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	240-260°C
Bed temperature	80°C
Active cooling fan	10 - 30%
Layer height**	0.05 - 0.30 mm
Shell thickness**	0.40 – 2.70 mm
Print speed**	30-70 mm/s
Closed chamber	recommended
Dry box	not necessary
Ruby or hardened nozzle	not necessary

* settings are based on a 0,4 mm nozzle.
** depending on the geometrical complexity

DESCRIPTION

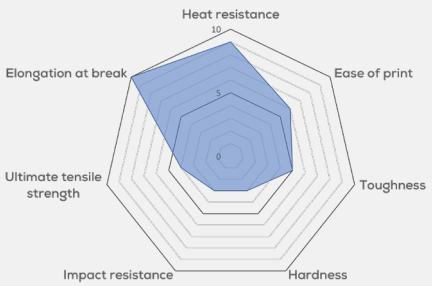
Spectrum PET-G FX 120 is a flexible material, designed especially for engineering applications requiring both the durability of an engineering-class polymer and strength, enabling designers to create rapidly truly functional parts to withstand normal use. Spectrum PET-G FX120 belongs to the group of rigid elastomers. As a result, it can be effectively used not only on 3D printers with direct drive mechanism but also on devices with a Bowden filament.

FEAUTURES

- Dimensional stability
- Improved aesthetics
- Excellent temperature resistance
- Excellent durability
- A wide processing range
- Low odour
- Properties retained in 3D applications
- Possibility to steam sterilise
- Styrene-free
- 95A Shore hardness

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**