Spectrum FILAMENTS

TECHNICAL DATA SHEET

Pellet PETG Premium

MATERIAL PROPERTIES

Specific Gravity	1.27 g/cm³	D 792
Mechanical Properties		
Tensile Stress at Yield	26 MPa	D 638
Tensile Stress at Break	48 MPa	D 638
Elongation at Break	58,00%	D 638
Elongation at Yield	4,30%	D 638
Tensile Modulus	1950 MPa	D 638
Flexural Strength	64 MPa	D 790
Flexural Modulus	1880 MPa	D 790
Rockwell Hardness, R Scale	108	D 785
Izod Impact Strength, Notched @ 23°C	126 J/m	D 256
Izod Impact Strength, Notched @ -40°C	57 J/m	D 256
Thermal Properties		
Heat Deflection Temperature	70°C	D 648

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	230-255°C
Bed temperature	60-80°C
Active cooling fan	YES (up to 100%)
Closed chamber	not necessary
Dry box	not necessary
Ruby or hardened nozzle	not necessary

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

DESCRIPTION

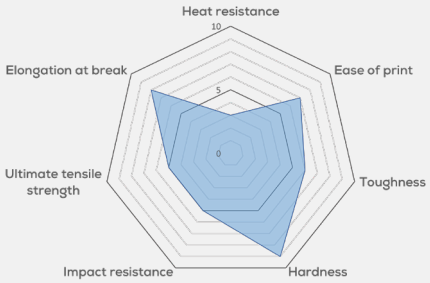
Spectrum Pellet PETG Premium is a high-quality PET-G material for 3D printing designed for large-format 3D printers using FGF technology. The main advantage of 3D printers that enable printing directly from pellets is characterized by higher efficiency as compared to printing with use of traditional filaments, which results in significantly reduced time required for models' production.

FEAUTURES

- high transparency as compared to other materials for additive manufacturing
- very good mechanical properties as regards rigidity, hardness and impact resistance
- chemical resistance
- high dimensional accuracy
- combines the advantages of PLA and ABS
- exceptional adhesion between layers
- odour-free printing

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**