

PETG ESD

MATERIAL PROPERTIES

General Properties

Specific Gravity	1.23 g/cm ³	D 792
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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	1980 MPa	D 790
Rockwell Hardness, R Scale	108	D 785

Thermal Properties

Heat Deflection Temperature	72°C	D 648
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Electrical properties

Surface resistivity	10 ⁷ -10 ⁹ Ω/sq	
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GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	230-260°C
Bed temperature	60-80°C
Recommended printing speed	40-350 mm/s
Cooling	75-100%
Density	1.19 g/cm ³
Closed chamber for printing	not necessary
Dry box recommended	No
Ruby or hardened nozzle recommended	No
Surface finish	semi-matte
Adhesive	not necessary*

* depending on the geometrical complexity

DESCRIPTION

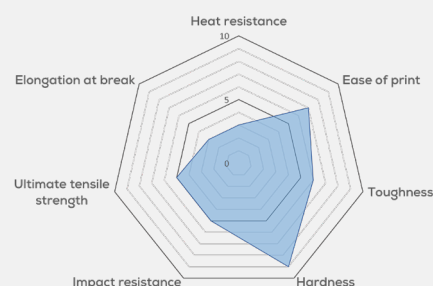
Spectrum PETG ESD is a high-quality antistatic filament, developed from a proprietary polymer blend to provide long-lasting protection against electrostatic discharge (ESD). Designed for industrial and technical applications where reliability, safety, and precise surface properties matter, this material combines PETG's mechanical strength, excellent interlayer adhesion, and ease of printing with a unique matte finish, giving prints a professional appearance.

FEAUTURES

- Permanent and stable antistatic properties
- Reliable ESD protection over the entire service life
- Performance independent of ambient humidity
- Halogen-free, safe, and environmentally friendly formulation
- Attractive matte surface finish
- High mechanical and chemical resistance
- Excellent interlayer adhesion and dimensional stability

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