

TECHNICAL DATA SHEET

PETG ESD

MATERIAL PROPERTIES

General Pro	perties	S
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Specific Gravity	1.23 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	1980 MPa	D 790
Rockwell Hardness, R Scale	108	D 785
Thermal Properties		
Heat Deflection Temperature	72°C	D 648
Electrical properties		
Surface resistivity	10^{7} - $10^{9} \Omega/sq$	

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	230-260°C	
Bed temperature	0°08-00	
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

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

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

