

STATIC DISSIPATIVE ABS

ABS-ESD (Anti-Static) Filament

1.75 mm · 1 kg spool · ± 0.05 mm tolerance

Static dissipative ABS for jigs, fixtures and housings used around electronics and static sensitive equipment.

✓ Electrostatic dissipative

✓ HDT 98 °C

✓ For electronics workspaces

✓ Enclosure recommended

Recommended Print Settings

Nozzle temperature 220–240 °C
230 °C recommended

Bed temperature 100–120 °C
110 °C recommended

Print speed 40–60 mm/s
50 mm/s recommended

Support material HIPS, ABS-ESD (self supported)

 Use an enclosed printer and a heated bed to limit warping.

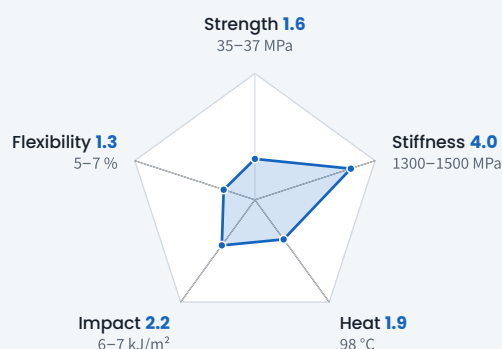
Filament Specifications

Material	Static dissipative ABS
Diameter	1.75 mm
Diameter tolerance	± 0.05 mm
Net filament weight	1 kg

Spool & Packaging

Empty spool weight	150 g
Spool with filament	1.15 kg
Spool outer diameter	200 mm
Hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 220 × 75 mm

Property Profile



Scores from 1 to 5 relative to the OzFDM filament range, based on the typical values in this sheet (stiffness and impact on a log scale).

Storage & Handling

Drying

70 °C for a minimum of 5 hours in a filament dryer or food dehydrator.

Storage

Airtight bag or container with desiccant in a cool, dark and dry area to prevent moisture absorption. For optimal long term storage we recommend drying the filament prior to sealing the filament spool in a vacuum bag with desiccant.

Mechanical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile strength	ISO 527	35–37 MPa
Elongation at break	ISO 527	5–7 %
Tensile modulus	ISO 527	1300–1500 MPa
Flexural strength	ISO 178	60–61 MPa
Impact strength	ISO 180	6–7 kJ/m ²

Physical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.08–1.10 g/cm ³
Melt flow rate (220 °C, 2.16 kg)	ISO 1133	8–12 g/10min
Moisture absorption (23 °C, 24 h)	ISO 62	<1 %

Thermal Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Heat deflection temperature (0.455 MPa)	ISO 75	98 °C
Continuous use temperature	IEC 60216	80 °C

Available Colours 1



Black

Swatches are indicative only. Colours vary between screens and with print settings.

NOTES

Values shown are typical results measured on test specimens and are provided for guidance only. They are not guaranteed specifications and should not be used as design limits. Printed part properties vary with printer, settings, print orientation and part geometry. Test your parts for suitability before use in critical applications.