



ABS Basic Filament

1.75 mm · 1 kg spool

Print with confidence using OzFDM's Basic ABS filament. This high-quality material offers excellent layer adhesion, good impact strength, and a smooth surface finish. Perfect for a wide range of 3D printing projects, including prototypes, functional parts, and even some end-use applications. Available in a variety of colours to suit your every need.

✓ Excellent layer adhesion

✓ Good impact strength

✓ Smooth surface finish

RECOMMENDED PRINT SETTINGS

Nozzle temperature	220 – 240 °C (230 °C Recommended)
Bed temperature	80 – 110 °C (100 °C Recommended)
Print speed	40 – 300 mm/s
Support material	HIPS, ABS+ (self support)
Drying	80 °C for ≥ 5 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.03 mm
Net weight	1 kg
Density	1.04 – 1.06 g/cm ³

SPOOL & PACKAGING

Empty spool weight	150 g
Full spool weight	1.15 kg
Spool outer diameter	200 mm
Spool hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 210 × 75 mm

AVAILABLE COLOURS (16)



Natural



Black



White



Skin Colour



Brown



Pink



Rose



Red



Yellow



Orange



Blue



Purple



Gold



Silver



Grey



Green

MECHANICAL PROPERTIES

Tensile Strength ISO 527	35 – 40 MPa
Elongation at Break ISO 527	12 – 17 %
Flexural Modulus ISO 527	1500 – 1650 MPa
Flexural Strength ISO 178	65 – 70 MPa
Impact Strength ISO 180	7 – 10.5 kJ/m ²

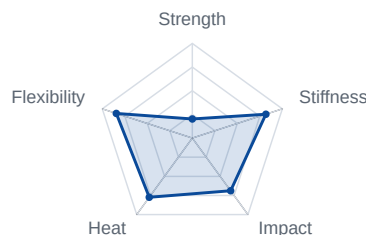
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	88 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	2 – 4 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	1 %

STORAGE & HANDLING

Airtight bag or container with desiccant in a cool, dark, dry place. For long-term storage, dry the filament before vacuum-sealing it with desiccant.

PROPERTY PROFILE



Relative to the OzFDM filament range