

3D

ABS Filament

- High performance Acrylonitrile Butadiene Styrene (ABS) for material extrusion (ME)
- High rigidity, high gloss, medium impact strength
- Resistant to grease
- Good post-printing workability
- Strong odour during printing
- Main applications: Concept modelling for building, electrical, automotive industry etc. Non-critical parts such as enclosures.



Filament Specifications

Size	Ø tolerance	Length
1.75mm	± 0.05mm	396 m
2.85mm	± 0.09mm	149 m

Material properties

Description	Test method	Typical value
Density	ISO 1183	1.05 g/cm
Viscat softening temperature	ISO 306	104°C
Flexural strength	ISO 178	76 MPa
Flexural modulus	ISO 178	2200 Mpa
Impact strength - Charpy method 23°C	ISO 179	21 kJ/m2
Tensile strength	ISO 527	47 Mpa
Tensile elongation	ISO 527	30%

Recommended printer set up

Extrusion temperature	250±10°C
Bed temperature	90°C
Printing speed	30 mm/s



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Filaments Available

Part Number	Colour		RAL code	Diameter	Weight
55026	Black		9017	1.75 mm	1 kg
55027	White		9003	1.75 mm	1 kg
55029	Blue		5002	1.75 mm	1 kg
55030	Red		3020	1.75 mm	1 kg
55031	Green		6018	1.75 mm	1 kg
55028	Natural Transparent		-	1.75 mm	1 kg
55032	Silver/Metal Grey		9006	1.75 mm	1 kg
55034	White		9003	2.85 mm	1 kg
55033	Black		9017	2.85 mm	1 kg
55035	Natural Transparent		-	2.85 mm	1 kg
55036	Silver		9006	2.85 mm	1 kg

Verbatim filament is manufactured from high quality materials to extremely rigid standards. The filaments are manufactured from the highest quality materials and produced to extremely tight tolerances to ensure consistent feed and stable printing. The filaments are distributed in vacuum-sealed bags with desiccant, and wound onto a custom spool that has been designed for strength, uniform dynamic performance and trouble-free dispensing.