



PRIMALLOY™ Filament

- A high performance, thermoplastic polyester elastomer (TPE), developed using Mitsubishi Chemical's proprietary materials.
- Highly flexible, yet extremely durable material, offering excellent heat, oil and abrasion resistance.
- To be used in widely available fused filament fabrication (FFF) 3D printers.
- Suitable for printing objects such as gaskets, seals, grips, waterproof packaging, goggles and keypad buttons.

*Note: Specification values are for reference only and not intended as a warranty of any kind.



Product Specifications

Test Method

Diameter accuracy	± 0.05 mm	
Extrusion temperature	210 °C - 235 °C	
Bed temperature	40 °C - 50 °C	
Material net weight	500 g	
Filament Length	1.75mm - 190m 2.85mm - 70 m	
Melt Flow Rate (230 °C, 21.2N)	45g/10min	ISO1133
Density	1.09 g/cm ³	ISO1183
Durometer hardness	Shore A85	ISO7619
Tensile strength	14 MPa	ISO37 (break)
Tensile elongation	900%	ISO37



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Colour	Part Number		PANTONE® ref.*	Diameter	Weight
White	55500		White Process	1.75 mm	500 g
Black	55506		Black Process	1.75 mm	500 g
White	55501		White Process	2.85 mm	500 g
Black	55507		Black Process	2.85 mm	500 g

* Closest PANTONE® colour reference

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.