

3D Power ABS

The 3D Power ABS filament is the perfect combination of high-quality and cost-effective ABS filament. It is distinguished by high hardness, toughness and a wide range of applications. It is one of the most widely used materials in 3D printing to produce durable parts that should withstand higher temperatures (up to 90 ° C).

3D printed parts made of 3D Power ABS filament are usually more flexible and less "brittle" than those made of PLA filament. Components printed with ABS can be treated with acetone vapor to eliminate the visibility of the layers and ensure a shiny and smooth appearance.

Filament specification

Property	Value
Diameter:	1.75mm
Diameter tolerance:	± 0.03mm
Ovality:	≥ 95%
Net weight:	1000g
Nozzle temperature:	235-260°C
Bed temperature:	80-100°C
Cooling:	10-35%
Print speed:	30-90mm/s

Technical data

Property	Typical Value	Test method
Denisty	1.04 g/cm ³	D 792
MFR (220°C / 10kg)	20.5 g/10min	D1238
Head Deflection Temperature	85°C	D 648
VICAT softening point	97°C	D 1525
Flammability (1.5mm; 3.0mm)	HB	UL94
Tensile Strength at Yield *	445 kg/cm ²	D 638
Tensile Elongation at Break*	25%	D 638
Flexural Strength**	690 kg/cm ²	D 790
Flexural Modulus**	22 000 kg/cm ²	D 790

*(50mm/min)

** (15mm/min)

Disclaimer

Information and technical data about this product, provided in that data sheet are correct to our best knowledge. Data is for comparison purposes only and they should not be used for design specifications or quality control purposes. AM3D Sp.z o.o. makes no guarantees and is not responsible for any damages, injuries, losses caused by the use of materials or influence on the final properties of the product, which may differ from the values given in this document.