

3DPower ASA

The 3DPower ASA filament is resistant to UV radiation. High mechanical strength and high temperature resistance make 3DPower ASA an unrivaled material for printing elements constantly exposed to weather conditions.

In addition, the 3DPower ASA filament, compared to ABS, apart from the aforementioned resistance to weather conditions, is characterized by low shrinkage. The durability of 3DPower ASA filament prints is similar to those made of ABS, but the printing process itself is easier.

Filament specification

Property	Value
Diameter:	1.75mm
Diameter tolerance:	± 0.03mm
Ovality:	≥ 95%
Net weight:	1000g
Nozzle temperature:	230-260°C
Bed temperature:	80-100°C
Cooling:	0-40%
Print speed:	40-100mm/s

Technical data

Property	Typical Value	Test method
Density	1.07 g/cm ³	ISO 1183
Heat Deflection Temperature (1.8MPa)	86°C	ISO 75
VICAT softening point	93°C	ISO 75
Flammability (1.5mm; 3.0mm)	HB	UL 94
Flexural Modulus	1890 MPa	ISO 527
Tensile Modulus	1820 MPa	ISO 527
Flexural Strength	62 MPa	ASTM D790
Tensile Strength at Yield	44 MPa	ISO 527
Tensile Elongation at Break	32%	ISO 527

Disclaimer

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