

FDM MATERIAL SPECIFICATIONS

ABS Black

Highlights

- Production thermoplastic material
- Opaque black color
- Excellent accuracy
- Creates strong and durable parts
- Simulates end-use parts before actual production

Applications

- Conceptual modeling
- Functional prototyping for realistic testing
- Manufacturing tools
- End-use-parts
- Suitable for a wide range of industries

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	English	Metric
Color/Appearance	Visual	White	White
Tensile Strength	ASTM D638	5,200 psi	36 MPa
Tensile Modulus	ASTM D638	350,000 psi	2,413 MPa
Tensile Elongation	ASTM D638	4%	4%
Flexural Strength	ASTM D790	8,800 psi	61 MPa
Flexural Modulus	ASTM D790	336,000 psi	2,317 MPa
Izod Notched Impact	ASTM D256	2.6 ft-lb/in	139 J/m
Hardness (Shore D)	n/a	109.5 D	109.5 D
Heat Deflection Temperature	ASTM D648 @ 264 psi	180°F	82°C
	ASTM D648 @ 66 psi	204°F	96°C
Glass Transition (Tg)	DSC (SSYS)	226°F	108°C
Flame Classification	UL94	UL94 HB (0.06", 1.5 mm)	UL94 HB (0.06", 1.5 mm)
Specific Gravity	ASTM D792	1.04	1.04
Dielectric Strength	IEC 60112	28.0 kV/mm	28.0 kV/mm

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change without notice.