

# FDM MATERIAL SPECIFICATIONS

## ABS RED

### HIGHLIGHTS

- Production thermoplastic material
- 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	Red	Red
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
Shore D Hardness	-	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

FDM Material Datasheet ABS Red 2015-09

