



FDM MATERIAL PRODUCTION - GRADE

Fused Deposition Modeling (FDM) – ABS-M30

ABS-M30 - 3d manufacturing material is ideal for conceptual modeling, fit and functional prototypes plus end-use parts. Flame Classification is UL 94 - HB (0.09 in).

Technology:	FDM
Material type:	Thermoplastics
Elongation at Break % (ASTM D638):	4%
Flexural Strength (ASTM D790):	8,800 psi
Flexural Modulus (ASTM D790):	336,000 psi
Glass Transition Temperature (DSC):	226°F
Heat Deflection (HDT) @ 66 psi, 0.125" unannealed (ASTM D648):	204°F
Heat Deflection (HDT) @ 264 psi, 0.125" unannealed (ASTM D648):	180°F
Impact Strength Notched (ASTM D256):	2.6 ft-lb/in.
Impact Strength Un-notched (ASTM D256):	5.3 ft-lb/in.
Available Colors:	Black, Blue, Dark Gray, Ivory, Red, and White.
Net Build Size Parts Up To:	36 x 24 x 36 in. ~ 914.4 x 609.6 x 914.4 mm
Layer thickness for 400mc / 900mc:	0.007 in. ~ (.178mm) ~ 0.010in. ~ (.254mm)
Accuracy for 400mc / 900mc:	±0.005 in. ~ (±.127 mm) ~ ±0.0035 in. ~ (±.089 mm)
Applications:	Form or fit testing, Functional testing, Rapid tooling patterns, Less detailed parts, Parts with snap-fits & living hinges, High heat, and Unmanned aerial vehicle parts applications.

Disclaimer: The data above is general information and may vary from machine to machine or supplier to supplier. All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, materials, and part requirements.