

## 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).

<b>Technology:</b>	FDM
<b>Material type:</b>	Thermoplastics
<b>Elongation at Break % (ASTM D638):</b>	4%
<b>Flexural Strength (ASTM D790):</b>	8,800 psi
<b>Flexural Modulus (ASTM D790):</b>	336,000 psi
<b>Glass Transition Temperature (DSC):</b>	226°F
<b>Heat Deflection (HDT) @ 66 psi, 0.125" unannealed (ASTM D648):</b>	204°F
<b>Heat Deflection (HDT) @ 264 psi, 0.125" unannealed (ASTM D648):</b>	180°F
<b>Impact Strength Notched (ASTM D256):</b>	2.6 ft-lb/in.
<b>Impact Strength Un-notched (ASTM D256):</b>	5.3 ft-lb/in.
<b>Available Colors:</b>	Black, Blue, Dark Gray, Ivory, Red, and White.
<b><u>Net Build Size Parts Up To:</u></b>	36 x 24 x 36 in. ~ 914.4 x 609.6 x 914.4 mm
<b><u>Layer thickness for 400mc / 900mc:</u></b>	0.007 in. ~ (.178mm) ~ 0.010in. ~ (.254mm)
<b><u>Accuracy for 400mc / 900mc:</u></b>	±0.005 in. ~ (±.127 mm) ~ ±0.0035 in. ~ (±.089 mm)
<b>Applications:</b>	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.