

FUSED DEPOSITION MODELING (FDM) STANDARD TOLERANCES

Attainable prototype dimensional tolerances depends on the choice of technology used to make the prototype or short-run parts. Actual capabilities are dependent upon manufacturing, equipment, material selection, and part requirements. For unique requirements to ensure specs are met within the limitation of our technologies, capabilities and processes, a 2D drawing print (s), tolerances, and / or other requirements are required in writing when quotation is requested. We are fully equipped to fabricate components for companies and can quote from STEP, IGES, and SLDPRT model formats.

Technology:	Modeling Filament Thermoplastic
Material type:	Rigid
Materials:	ABS-M30, Polycarbonate, Ultem-9084
Net Build Size Parts Up To :	16" x 14" x 16" - 36" x 24" x 36"
Layer Thickness:	0.005 in, 0.013 in, 0.010 in, 0.007 in
Dimensional Tolerances:	± 0.005 in, ± 0.0015 in, ± 0.0035 in
Minimum Wall Thickness:	Thicknesses ~ .007" (0.024"), .010" (0.032"), .013" (0.036")
Ideal Uses For This Technology:	Aerospace, Automotive, Components, Electronics, Medical Design Parts, Jigs, Fixtures, Functional End-Use Components.

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. These dimensional tolerances, buyer assumes sole responsibility for the design, and must test and verify the material of the product for each specific application applies to their internal requirements.