

FUSED DEPOSITION MODELING (FDM)

It uses the extrusion of thermoplastic material to deposit fused material, layer by layer. It is easily the most common and recognizable 3DP process, known for its durability.

Widely used for prototyping and parts in manufacturing, automotive, education, and other industries



Applications

- Functional prototypes
- Manufacturing tools
- Low-volume parts
- Sand casting patterns



Materials

- ABS
- Nylon
- Flexible
- PMMA
- PET
- PLA
- Wood
- PC
- HIPS
- Others



Design Guidelines

- Min wall thickness: 1mm
($<1\text{mm}$ thickness areas may have some issues)
- Min clearance: 0.5 mm
(for Interlocking parts to aid fitment)
- Min Details : 4 mm (text/ hole dia..)
- Max size: 100x100x100 cm
(Larger parts done in parts and fitted/ glued)



Output Details

- Rough finish with visible layers texture.
- Accuracy: $\pm 0.3\%$
(with lower limit on $\pm 0.3\text{ mm}$)
- Layer thickness: 0.1-0.3mm



Post Processing

- Support Removal
- Sanding, Smoothing
- Primer /Putty on request
- Coating/ Painting
(printed in white and spray painted)



Other Details

- Lead Time: Depends on part.
(Min 1-2 days for dispatch. More for larger parts)
- Variants: Low/ regular/ high quality

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