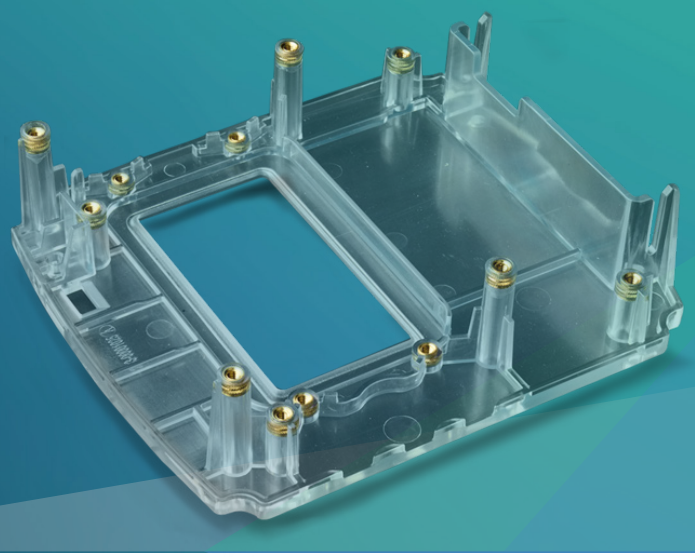
Injection Molding

Injection molding is used for the production of high quality parts and prototypes.



3D Systems On Demand provides traditional injection molding services, with capabilities ranging from prototype through production quantities, multi-cavity tooling, tight tolerances, over-molding and secondary post-molding operations.

We offer most commercially available thermoplastics from production-grade tooling, with no geometry limits and have a large variety of solutions and benefits to meet your needs. Ideal for production grade tooling for 50 – 100K parts.

- Broad experience, diverse polymer materials
- In-house tool production/tool trying
- Flexible machinery for production starts, ramp-up etc.
- Wide range of post-processing technologies (assembly, laser welding, printing, painting.)

Applications

- Packaging
- Consumer goods
- Medical devices
- Electronics & telecommunications
- Mechanical parts (including gears)

Lead Times

Standard: 2 – 4 weeks for T1 samples

Dimensional Limitations

Machine tonnage 25T to 1300T

Materials

3D Systems offer most commercially available thermoplastics (including ABS, HDPE, LDPE, PC/ABS, PET, PMMA, POM, PC, PP, PA (Nylon) 6/6, PS, TPE, TPU, etc.) from production-grade tooling.

Finishing & Post Processing

3D Systems On Demand offers a complete range of part finishing and assembly options.

General Capabilities

- Fast and dependable service
- Variety of polishing and texturing capabilities
- ISO 9001 certified facilities
- Class 103 to 105 injection tooling
- Certified P20 Steel, H13 and stainless steels
- In-house tooling trial capabilities ranging from 40 ton to 3000 ton molding presses
- Fully automated tooling with slides, lifters & standalone tool bases
- Pilot and short run production available upon tooling completion
- Secondary assembly and painting options available
- PPAP and process capability studies
- Free Design for Manufacturing Analysis (DFM) with each quote

Contact our team to explore the options best suited to your project's requirements