T.O. PLASTICS
LIFE SCIENCES | CUSTOM SOLUTIONS

Heavy Gauge Thermoforming

Large, Structural Plastic Parts | Faster, Lower-Risk Launch

Up to 0.375"
Plastic Gauge / Thickness

Up to 60" × 84"
Mold Capacity

Flexible Production
Evolving Designs & Scalable Volumes

Engineering-Led
Design for Manufacturability

What is Heavy Gauge Thermoforming?

A process for forming thick plastic sheet into large, durable precision parts. Ideal for structural housings, enclosures, panels, and covers requiring dimensional control and consistent wall thickness across production.

When to Use This Process

Choose heavy gauge thermoforming when you need large plastic parts with lower capital investment, faster time-to-market, and flexibility for evolving or complex geometries.

Rotary Thermoforming

Continuous rotary process for high-volume production. Multiple stations operate simultaneously for maximum throughput and repeatability.

Best suited for: High volume, shorter cycle times, consistent parts, repeatable production

Shuttle Thermoforming

Single-station shuttle system for larger parts and lower volumes. Maximum flexibility for oversized or complex geometries.

Best suited for: Large parts, complex geometries, lower volumes, prototype runs

Tooling Strategy

- Faster Development
- Lower Capital Investment
- Enables Iteration

Trimming Methods

- Steel Rule Die (repeatable)
- 5-Axis CNC (complex precision)

Materials

Material selection driven by engineering collaboration.

- HDPE, ABS, PC, TPOs, HIPS, PVC, PETG

Secondary Operations

- Bonding & Assembly
- Painting & Surface Finishing
- Kitting & Packaging

Quality & Certifications

- ISO 9001:2015 and ISO 13485:2016
- Full Dimensional Inspection
- CMM Verification

Applications

Medical device housings, transportation panels, industrial enclosures, appliance housings, dunnage trays and pallets.

Talk to an Engineer

Request a Quote
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