



**TECHNIFORM**  
**INDUSTRIES, INC.**

*We bring your ideas to life!*

## ***Shaping The Future With You...***

Techniform Industries offers diverse products and developmental solutions for strategic growth markets with their plastic Thermoforming processes, in-house tooling facility, and value-added capabilities.

## ***Partnership Is Our Business...***

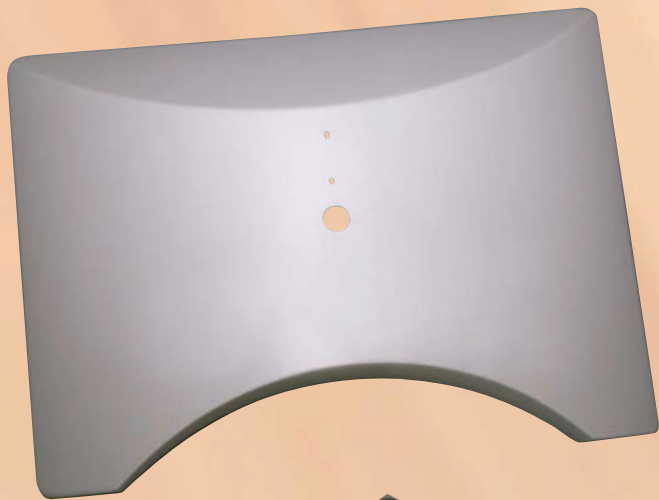
Techniform Industries begins each project by identifying which thermoforming process will meet a customer's budget and quality criteria.

## ***Your Success Is Ours...***

Techniform Industries serves a large industry base including: automotive, consumer products, packaging, retail and display, sports and leisure, electronics, and industrial.



*...offers a cost effective approach, with true flexibility which can bring your idea to life with innovative prototyping, engineering, tooling, production, and delivery solutions!*



## Advantages of the Thermoforming Process

- Extremely adaptive to customer design needs
- Rapid prototyping development
- Material and process is optimized for cost effectiveness
- High-speed production allows for just-in-time shipments
- Flexible tooling design offers a competitive advantage
- On-the-fly product enhancements are available, and with low additional costs
- Visually pleasing appearance
- Weight savings for consumer and manufacturer
- Wider design scope
- Lower tooling costs
- No anticorrosion spray necessary
- Paintable and colored plastic availability
- Fully integrated process with limitless flexibility for small to large product designs

# Vacuum

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## FORMING

Vacuum Forming is the leading plastic Thermoforming process in which sheet plastic is heated and formed over a mold by removing air from the area between, the mold surface and the sheet. Molds can be created from aluminum, wood, or epoxy. The mold type is only dependent on the finished product design requirements.



### Advantages of Vacuum Forming

- Low Tooling and Engineering Costs
- Large Size Capability
- Fast Turn-Around Time
- Large variety of materials to select from

### Vacuum Forming Process Candidates

- Automotive Interiors
- Shipping/Packaging Containers
- Covers and Bevels
- Display Cases
- Dunnage Containers
- Shipping Pallets



# Twin Sheet

## FORMING



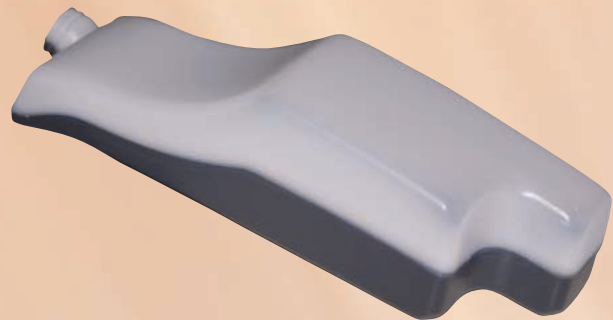
Twin Sheet Thermoforming is a process involving Vacuum Forming two plastic sheets simultaneously by utilizing opposing female molds, and bonding the two halves together while they are still hot. The result is a hollow finished piece which looks very similar to a blow molded product, but with several cost and manufacturing advantages.

### Advantages of Twin Sheet Forming

- Increased Structural Integrity and Rigidity
- Enclosed Cross-Section Capability
- Low Tooling Cost
- Internal Reinforcement Options: Structural Member, Rigid Foam, Etc.

### Twin Sheet Forming Process Candidates

- Dunnage Containers
- Pallets
- Carrying Cases
- Double Walled Floors
- Blow Molding Prototype Development



# Pressure

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## FORMING

Pressure Forming produces the most detail of the Thermoforming processes. Similar to the other methods, Pressure Forming starts with sheet plastic being heated and formed by forcing the plastic onto a mold, however, this method uses more extreme amounts of air pressure to achieve a finished product. Compared to Vacuum Forming more detail can be achieved during Pressure Forming than any other Thermoforming method. The result of this added pressure is a product which looks very similar to an injection molded product, but with a much lower tooling cost.

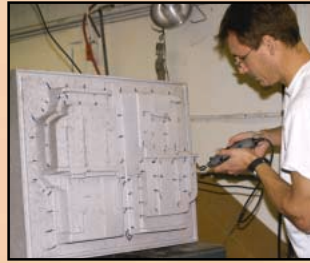


### Advantages of Pressure Forming

- Sharp Features
- Undercuts
- Raised or Recessed Type
- Molded Texture
- Low Tooling Cost
- Injection Molded Appearance

### Pressure Forming Process Candidates

- Computer Fronts
- Monitor Bezels
- Control Panels
- Injection Molding  
Prototype Development



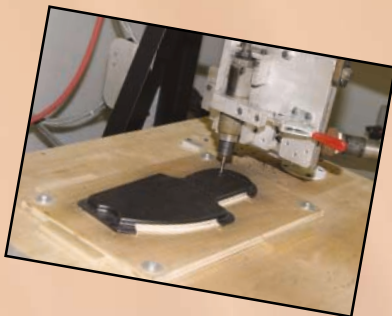
**In-House  
Design, Molds  
and Tooling**



**Multiple Station  
Forming Machines**



**A Complete Line of  
Secondary Capabilities**



**Warehousing  
Options Available**



## **Techniform Industries, Inc.**

celebrates a long tradition of quality, service, innovation and value as a custom plastic thermoformer since its inception in 1972.

### **Techniform's Abilities**

Techniform provides a wide variety of services from in-house design, prototypes, molds, and fixtures to secondary assembly, die cutting, CNC trimming, gluing, welding, and custom production fixtures. All services are provided to serve the customer and to aid in the creation of a more efficient and cost effective part.

Techniform's production facilities include multiple and single station vacuum and pressure forming machines, as well as in-line machinery. All machines are state of the art, digitally controlled to insure quality and consistency. Secondary capabilities include: routing, CNC trimming, die cutting, riveting, sealing, and assembly.

### **Techniform's Philosophy**

Through the years, Techniform has become a well-respected leader in the plastic thermoforming industry known as the company where **"ideas are brought to life"** through personal care and individualized attention to each customer from small prototype runs to large production quantities.

Today, Techniform has grown to over 30 full-time employees and produces custom plastic thermoforming components for a wide variety of industries.



2107 Hayes Avenue, Fremont, OH 43420

PH 419.332.8484 • FX 419.334.5222

[www.techniform-plastics.com](http://www.techniform-plastics.com)