WE ARE STRUCTURAL FOAM

FEATURING

- High stiffness-weight ratio
- Less molded-in stresses
- Significant cost reductions

DISCOVER how structural foam molding can replace wood, metal, concrete and fiberglass.

260.868.2105
WWW.DEKALBPLASTICS.COM
MARKETS
- Specialty Material Handling
- Medical Housings, Structures & Cabinetry
- Safety Enclosures & Devices

BENEFITS OF STRUCTURAL FOAM
- Low mold cavity pressure
- Reduced part weight
- Capable of molding large, complex parts
- Low cavity pressure allows lower cost tooling
- Low part stress and warpage
- Excellent weld strength of knit lines
- Multiple molds can be run at the same time
- Capable of molding parts 3/16” thick or greater
- Excellent for painted finish applications
- High dimensional stability
- Virtually any thermoplastic can be foamed
- High stiffness-to-weight ratio

CUSTOM INJECTION MOLDING
DeKALB is a low pressure structural foam molder specializing in 1-8 foot, multi-nozzle plastic products (3-150 pounds) with presses from 300 to 750 tons.

VALUE ADDED CAPABILITIES
- Fabrication
- Inserting
- Painting
- Shielding
- Silk Screening
- Assembly
- Kitting
- Inventory Management

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### Structural Foam vs. Other Manufacturing Methods

#### Part Size

- **Injection Molding**
- **Structural Foam Molding**
- **Compression Molding**
- **Blow Molding**
- **Thermoforming**
- **Extrusion**

#### Part Complexity

- **Tooling**
- **Feature**
- **Finishing Cost**
- **Variable Walls**
- **Volume (EAV)**
- **Part Complexity**
- **Dimensions**
- **Mechanical Strength**

#### Product Stiffness - Based on Consistent Weight

<table>
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<th>Structural Foam</th>
<th>RIM</th>
<th>Pressure Forming</th>
<th>Stamped Metal</th>
<th>Diecast Metal</th>
<th>Fiberglass Layup</th>
<th>Rotational Molding</th>
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#### Polymers Are More Sustainable

- **Brass**
- **Stainless Steel**
- **Aluminum**
- **PC**
- **PVC**
- **PP**
- **ABS**
- **HIPS**

Lower carbon footprint starting point
Lower energy in manufacture and installation

Part manufacturers have a lower carbon footprint with polymers. Carbon footprint = Greenhouse gas (GHG) emissions

### Comparison of Structural Foam to Other Processes

- **Strength/Advantage**
- **Neutral/Moderate**
- **Weakness/Limited**