DeKALB
MOLDED PLASTICS

THE LEADING PROCESS FOR LARGE PLASTIC PARTS

STRUCTURAL FOAM

LOWER COST | INCREASED STIFFNESS | LIGHTER WEIGHT

CUSTOM INJECTION MOLDING

FOR STRUCTURAL FOAM & GAS ASSIST APPLICATIONS

DeKALB Molded Plastics is a custom, low-pressure structural foam molder specializing in 1-8 foot, multi-nozzle plastic products from 3-150 pounds. With the pressure ranging in tonnage from 300 to 750 tons, we are well-equipped to handle your plastic and assembly requirements. We specialize in alternative material conversions, including:

METAL | WOOD | CONCRETE | FIBERGLASS | AND MORE!

MARKET SOLUTIONS

The team at DeKALB Molded Plastics has a strong commitment to customer satisfaction. Our development processes have been perfected through our dedication to industry demands, all with the goal in mind of forming strong partnerships positioned for long-term success. We produce durable parts for the following industries:

SPECIALTY MATERIAL HANDLING

SAFETY PRODUCTS & DEVICES

MEDICAL HOUSINGS ENCLOSURES

+

ADDITIONAL MARKETS

SAVE TIME AND DOLLARS WITH OUR

VALUE-ADDED CAPABILITIES

- Fabrication
- Shielding
- Painting
- Inserting
- Assembly
- Inventory Management
- Silk Screening
- Kitting

COMMITTED TO YOUR SOLUTIONS

KEY BENEFITS

Comparison of Structural Foam to Other Processes

Feature	Structural Foam	RIM	Pressure Forming	Stamped Metal	Diecast Metal	Fiberglass Layup	Rotational Molding	SMC
Tooling	●	●	●	●	●	●	●	○
Variable Walls	●	●	○	○	●	●	○	●
Part Complexity	●	●	○	○	○	○	○	●
Finishing Cost	●	●	○	○	○	○	○	●
Volume (EAV)	200-20000	50-2000	50-1000	50-10000	50-5000	50-1000	50-1000	1000-25000
Dimensions	●	●	●	○	●	○	●	●
Mechanical Strength	●	●	●	●	●	●	●	●

● Strength/Advantage ● Neutral/Moderate ○ Weakness/Limited

STRUCTURAL FOAM/PLASTICS

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 line
Multiple molds can be run at the same time | Capable of molding parts 3/16" thick or greater | High dimensional stability
Virtually any thermoplastics can be foamed | High stiffness-to-weight ratio
Functions as an excellent substrate for high-quality painted finish applications

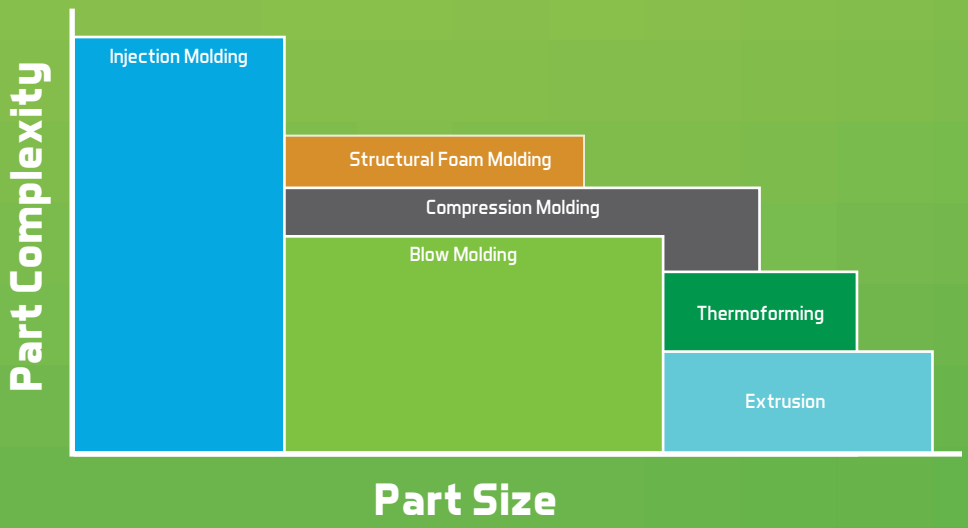
GAS ASSIST

Design freedom utilizing thick and thin wall sections
Hollow gas channels increase stiffness and reduce cooling times
Improved aesthetics (low warp, no sink marks, etc.)
Reduced cavity pressure equals lower tonnage, more efficient machines

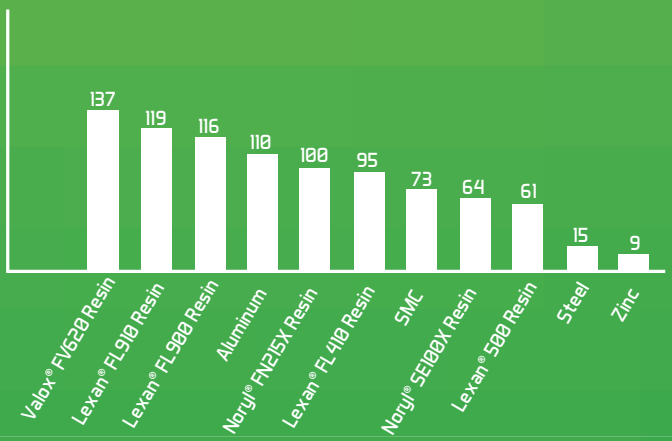
STRUCTURAL FOAM

VERSUS OTHER MANUFACTURING METHODS

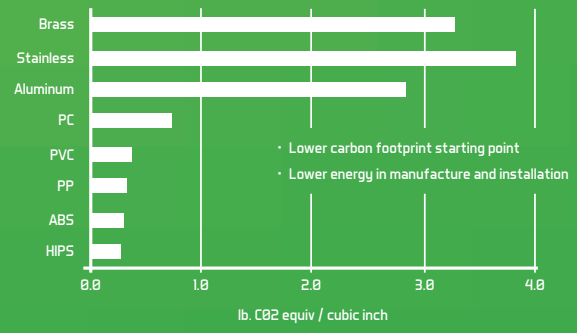
Structural Foam Part Size & Complexity Comparison



Product Stiffness - Based on Consistent Weight



Polymers Are More Sustainable Than Competing Materials



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

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