

From Air Force One To Missile Systems, We Shape Ideas Into Flyaway Aerospace And Defense Solutions



A Stellar Track Record From Underground Silos To Outer Space

Superior-quality General Plastics materials have been proven in military and missile defense applications for more than 50 years. Our flexible, polyurethane open-cell foams are formulated to absorb large amounts of impact energy at controlled rates while cushioning payloads from high G-stress levels. The Minuteman, Peacekeeper and Trident programs have all relied on LAST-A-FOAM® products.



GENERALPLASTICS
MANUFACTURING COMPANY



Why the premier producer of polyurethane foams should be your partner for build-to-print parts, composite core and tooling board.

Aircraft manufacturers have trusted General Plastics' top-flight parts for more than 40 years. We supply build-to-print flexible foam molded parts to original equipment manufacturers and Tier 1 / Tier 2 companies.

Durable custom-molded parts are manufactured from our flame-retardant, self-extinguishing, self-skinning flexible polyurethane foams. Our aircraft molded parts program spans flight deck and aircraft interior applications.



- PSU Seals
- Bulk Head Gap Seals
- Header Seals
- Sandwich Panel Edge Closeouts
- Exit Row Arm Rests
- Gap Seals
- Flight Deck
 - Overhead Headliners
 - Assist Panels
 - HUD Covers
 - CD Post Pads
 - Glare Shield Pads
 - Kick Strips



Flexible Foams – Sheet and Custom Parts

Available in multiple densities, General Plastics' versatile polyurethane flexible foams are a staple of aircraft interiors. Certified to meet FAR 25.853 standards, our self-skinning, fire-retardant flexible foam products are used extensively in flight deck and cabin applications. They deliver solid efficiency while absorbing energy at a consistent, controlled rate.

[Available only within a finished parts program]

LAST-A-FOAM® WSF-1010

LAST-A-FOAM® WSF-1121

These flame-retardant, durable, self-skinning foams are used extensively in aircraft flight decks and cabin applications. Both are self-extinguishing and can be custom-molded to each client's exacting specifications. The softer, more pliable

LAST-A-FOAM® WSF-1010 Series is ideal for interior gap seals where aesthetics are important. It can be tinted and painted a variety of colors. The tough, integral-skin **LAST-A-FOAM® WSF-1121 Series** is used for molded and fabricated flight-deck padding and interior parts. It can be pigmented and in-mold painted for a lasting finish.

[Available only as sheet stock]

LAST-A-FOAM® EF* /EFR-4000 Energy Absorption Flexible Series

LAST-A-FOAM® TF 5070 Absorption Semi-flexible Series

LAST-A-FOAM® TF 6070* Energy Absorption

Semi-Flexible Series

LAST-A-FOAM® FP 8000 Energy Absorption Semi-rigid Series

* Not fire-retardant

Offered in sheets, blocks and molded parts, these products are extremely durable and resistant to environmental stresses. They are formulated to absorb significant energy while protecting payloads from high stress levels. Specific product applications include aircraft interior crash padding, and vibration dampening / cushioning for missiles and nuclear submarine launch tubes.



Rigid Foams

LAST-A-FOAM® rigid foam products are cost-effective, versatile, strong and durable. They are manufactured using our unique chemical formulas to be exceptionally uniform and consistent in all physical properties. General Plastics offers a wide spectrum of foam formulations, in multiple shapes and densities.

LAST-A-FOAM® FR-3800 FST Performance Core

This lightweight, rigid foam core satisfies fire, smoke and toxicity (FST) performance needs. Used in conjunction with other materials, it contributes to both aesthetics and safety. This product complies with the Ohio State University (OSU) 65/65 heat release standard, FAA flame and smoke regulations, and aircraft manufacturer toxicity requirements.

LAST-A-FOAM® FR-6700 Aerospace-grade Series

Flame-retardant rigid foam for aircraft composite core withstands process temperatures up to 250°F. Excellent for models and design prototypes, vacuum-form dies and mold patterns, and honeycomb edge closeout.

LAST-A-FOAM® FR-4500 Tooling Board Series

Tough, grain-free machineable tooling boards for styling and design models, master models, masters for composite and layout tools, and for mold and foundry patterns.

LAST-A-FOAM® FR-4700 HT Tooling Board Series

Supports prepreg composite layout tooling for high-temperature applications up to 400°F. Ideal for prototype machining, vacuum forming, pattern making and limited tooling runs.





From parts fabrication to custom formulation and testing, turn to a proven partner

General Plastics Manufacturing Company is ideally qualified and equipped to manage all aspects of a molded-foam part program. Our seasoned team of estimators, CAD CAM designers, chemist, procurement specialists, and production staff will design and develop a build to print program to satisfy your particular requirements.

We can assist in part design, tool design, mold tooling manufacture, and production of parts through all phases to completion. When necessary, we will custom-formulate appropriate foam systems to make just the part you need, with all the physical properties and other attributes you desire.

Our molded-part capabilities and facilities:

- Part/tool manufacture based on customer specifications
- Model-to-print and pattern-to print services
- Mold tooling manufacture
- Formulating foam with full QA documentation
- Dedicated assembly room for engineered parts
- Segregated, controlled-access ITAR assembly room for military parts

Custom molding, fabrication and assembly services:

- Mold development services
- Pattern making
- Prototype design and manufacture
- Tooling
- CNC machining
- Painting
- Adhesive bonding
- Prepreg, potting and resin-infusion processes

Testing services:

- Flammability
- Physical Property
- Developmental

Applications

- Flight Deck Pads
- Cabin Walls and Ceilings
- Service-Class Dividers
- Overhead Stow Bins
- Galleys and Lavatories
- Composite Cores
- Tooling Board
- Prototypes
- Wingtip-Lens Transparencies
- Honeycomb Edge Closeout
- Vacuum-forming Tools
- Mold Patterns

Certifications:

- NQA-1, MIL-I-45208A
- Boeing Company D6-82479
- BMS 8-133 Core Materials
- BMS 8-350
- BMS 8-39
- ISO 9001:2008/AS9100C
- ITAR compliant



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All General Plastics products are manufactured in the United States, and are free of CFCs and VOCs.

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