

Flexible & Rigid Foam



SNAPSHOT:

Preferred Volume: 1 to 2,000 units

Prices Beginning at: \$25

Single Tool Production: 3-5 parts per day

AT A GLANCE:

This process utilizes epoxy fiberglass tooling, our most cost-effective form of tooling. Our durable flexible foam material absorbs shock and forms a safe padding that won't bottom out. Coating can be applied to enhance color, UV stability, and chemical resistance. This material is excellent for use in the production of comfort and safety padding. High density foams are ideal for highly detailed parts requiring rigidity.

DUROMETER RANGE:

15 CF – 70 Shore A

PERFECT FOR:

Amusement Ride Padding, Comfort and Impact Protection, Industrial Seating Devices, Medical & Wellness Cushioning

NOTABLE CUSTOMERS:

Bolliger and Mabillard, General Electric, Toyota's Raymond Corporation

ATTRIBUTES



ABRASION & TEAR RESISTANCE



IMPACT ABSORPTION



MOLD & MILDEW INHIBITOR



UV STABILITY

Creative Strategy

SIZE & COMPLEXITY

- Maximum 72" x 36" or 40 lbs.
- Minimum material thickness .500"
- Considerations: charge port location, hardware, parting lines and over-molded substrates

MATERIALS

- Flexible or rigid foam with a variety of physical properties
- Considerations: color, density, deformation and absorption, service temperature, surface detail and weight

COLOR CHART: [view online at www.rsalberts.com](http://www.rsalberts.com)

DRAFT

Amount of taper for molded or cast parts perpendicular to the parting line. An angle is incorporated into a wall of a mold so that the opening of the cavity is wider than its base. Draft angles allow for easier ejection of the part from the mold.

- Less than 0° draft requires additional parting lines
- Flexible Foam: 1° draft preferred minimum
- Rigid Foam: 2° draft preferred minimum

SURFACE FINISH

Dents or markings distort the plane of a surface, causing light to reflect in a way that our eyes instantly identify as an inconsistency. Added texture aids in concealing blemishes and creates a friction factor on the surface of finished parts providing anti-slip qualities.

- Ranging from smooth to heavy pebble
- Custom surface finish available at additional cost
- Stenciling and Logo

TOLERANCES

Allowable variation for any given size in order to achieve proper function when considering the design intent. As with all molded products, part material's shrink value should be considered when building your pattern and mold.

- $\pm .300"$



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