

SNAPSHOT:

Preferred Volume: 1 to 1,000 units

Prices Beginning at: \$15

Single Tool Production: 1-2 parts per day

AT A GLANCE:

Composite, elastomer and urethane processes produce the exact reproductions demanded by prototype and specialty part development. Our most cost effective way to produce prototype or custom parts with more flexibility of part design parameters.

DUROMETER RANGE:

10 Shore A - 80 Shore D

PERFECT FOR:

Biology Dissection Models, Bumpers & Rollers, Electronic Device Cases, Gun Stocks & Steering Wheels

NOTABLE CUSTOMERS:

Cosworth, Playworld Systems, Ward's Natural Science



RALPH S. ALBERTS COMPANY INCORPORATED

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Cast Composites, Elastomers & Urethanes



ATTRIBUTES











ABRASION & TEAR RESISTANCE

DESIGN VERSATILITY

IMPACT ABSORPTION

TEMPERATURE RESISTANCE

Creative Strategy

SIZE & COMPLEXITY

- Elastomers & Urethanes: Minimum 1 gram maximum 50+ lbs.
- Composites: Minimum 1 gram maximum 10 lbs.
- Considerations: charge port location, hardware, parting lines and over-molded substrates

MATERIALS

- Solid urethanes, elastomers and composites with a variety of physical properties
- Considerations: absorption, color, deformation, flexibility & rigidity, service temperature, surface detail, and weight

COLOR CHART: view online at 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.

- · Composites: 1° draft preferred minimum
- Elastomers: 0° draft acceptable in some cases, 1° draft preferred minimum
- Urethanes: 0° draft acceptable in some cases, 1° 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.

- Urethanes: Ranging from smooth to heavy pebble
- Elastomers & Composites: Ranging from smooth to light pebble
- Custom surface finish available at additional cost

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.

 Composites: ±.010" • Elastomers: ±.030" • Urethanes: ±.015"