

**ADVANTAGE**  
THE ALBERTS  
Low Cost, High Performance  
Urethane Parts

# Roto-Cast Urethanes

## ATTRIBUTES



CHEMICAL  
RESISTANCE



HIGH  
STRENGTH



LONG LIFE  
EXPECTANCY



TEMPERATURE  
RESISTANCE

### SNAPSHOT:

**Preferred Volume:** 1 to 1,000 units

**Prices Beginning at:** \$50

**Single Tool Production:** 1-2 parts per day

### AT A GLANCE:

This process offers design advantages over other molding processes. Parts assembled from several pieces can be molded as one hollow part, eliminating high fabrication costs and reducing part weight. With inherent design strengths such as consistent wall thickness, strong outside and stress free corners that require consistent reproduction.

### DUROMETER RANGE:

40 Shore A – 85 Shore D

### PERFECT FOR:

Buoyant Components, Fluid Disposal & Storage Containers, Hollow Skeletal Models, Rigid Seating Devices

### NOTABLE CUSTOMERS:

CAE, Cedar Fair Group, ERMI Inc., WhiteWater Industries

## Creative Strategy

### SIZE & COMPLEXITY

- Minimum 2" x 2" x 2"
- Maximum 48" x 36" x 12"
- Minimum wall thickness of 1/16"
- Considerations: charge port location, hardware, parting lines and substrates

### MATERIALS

- Urethanes with a variety of physical properties
- Considerations: color, rigidity, service temperature, surface detail and weight

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

### DRAFT

Draft is the 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 and mold faces
- 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.

- Ranging from smooth to heavy 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.

- $\pm .030$ "



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