

# Injection Molded Plastics

## ATTRIBUTES



LIGHT  
WEIGHT



LONG LIFE  
EXPECTANCY



LOW  
COST



PRODUCT  
CONSISTENCY

### SNAPSHOT:

**Preferred Volume:** 100 to 250,000 units

**Prices Beginning at:** \$1

**Single Cavity Production:** Up to 500 per day

**Multi-Cavity Production:** Up to 5,000 per day

### AT A GLANCE:

Using high strength steel tooling, this process provides a fast, accurate way to test a new product or part in an array of material choices. Our most effective choice for niche market manufacturers as well as low volume requirements.

### DUROMETER RANGE:

3A – 50D

### PERFECT FOR:

Electronic Enclosures & Cases, Medical Simulation Components, Playground Equipment, Riot-Control Ammunition

### NOTABLE CUSTOMERS:

Corvette America, Johnson & Johnson, L-3 Communication

## Creative Strategy

### SIZE & COMPLEXITY

- Maximum 15" x 15"
- Maximum Volume 55 cu. in.
- Minimum Wall Thickness .025"
- Considerations: hardware, parting line, runner gate, sprue, over-molded substrates

### MATERIALS

- ABS, Acetal, Acrylic, Nylon, PBT, PET, PVC, Polycarbonate, Polycarbonate/ABS, Polyethylene, Polypropylene, Thermoplastic Elastomer
- Custom material available at additional cost with a variety of physical properties
- Considerations: color, density, flexibility, 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.

- Smooth Texture: 1° draft preferred minimum
- Light Texture: 3° draft preferred minimum
- Heavy Texture: 5° draft or more 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.

- Non-Cosmetic
- Rough
- Smooth
- High Polish

### 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.

- $\pm .005''$



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