

General process information

| MAX. PART SIZE | 800 x 800 x 400 mm 31.5 x 31.5 x 15.7 in |
|-----------------|--|
| MIN. PART SIZE | •1 x 1 x 1 mm • 0.04 x 0.04 x 0.04 in |
| TOLERANCE | Best achievable tolerance: ±0.001" (0.025m Standard: ±0.005" (0.127mm) For larger part tolerances please contact a S |
| LEAD TIME | As low as 2 weeks for T1 samples After T1 sample approval, lead time for < 10, |
| TOOL VALIDATION | Standard process is to produce a small set o |
| PRESS SIZE | • 4500T - 5000T |
| MIN. ORDER SIZE | • 100 parts and \$5000 |
| SET-UP FEE | • \$500 per mold per order (applies to sample |

mm)

SyBridge engineer

),000 parts is as low as 1 week

of T1 samples for approval before initiating full production

e runs after initial T1 samples or engineering changes)

Tooling

| RAPID TOOLING | Molds with aluminum cavity and core with a s Typically machined in 2 weeks |
|-------------------------------------|---|
| PRODUCTION TOOLING | Steel tool with shot life up to 1M shots Ability to integrate side-pulls or cam-actions Typically machined in 3 weeks |
| MULTI-CAVITY OR FAMILY MOLDS | Multiple identical cavities or family of parts n Allows for more parts to be produced per shore |
| INSERT MOLDING | Inserts are placed into the mold and molding Allows for inserts such as helicoils to be mole |
| OVERMOLDING | Premade parts are placed into the mold and Allows for multi-material injection molding |

a shot life of 5,000-10,000 shots

IS

machined into a single tool hot, minimizing unit costs

ng occurs around them to extend tool life for critical features olded in your design

d molded over

Materials

MOST COMMON MATERIALS

- Acrylonitrile Butadiene Styrene (ABS)
- Polyethylene (PE)
- Polypropylene (PP)
- Polycarbonate (PC)

OTHER SUPPORTED MATERIALS

- Nylon (PA 6, PA 11, PA 12, PA 66)
- Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS)
- Polyurethane (PU)
- Polymethyl Methacrylate (PMMA/Acrylic)
- High Density Polyethylene (HDPE)
- Low Density Polyethylene (LDPE)
- Polystyrene (PS)
- PEEK
- POM (Acetal/Delrin)
- Polyethylene Terephthalate (PET)
- Thermoplastic Elastomer (TPE)
- Thermoplastic Polyurethane (TPU)
- Polyetherimide (PEI)
- Thermoplastic Vulcanizate (TPV)
- Polysulfone (PSU)

ADDITIVES AND FIBER

- UV absorbers
- Flame retardants
- Plasticizers
- Colorants
- Glass fibers

Additional information

COLORS

- Pantone color matching
- RAL color matching

FINISHING / POST-PROCESSING OPTIONS

- Standard SPI finishes (A2-D3)
- Pad printing
- Inserts (e.g. heat stake inserts)
- Mold-tech textures also available
- Light assembly
- Protective packaging / film