



Superior Technical Ceramics
Engineering. Partnership. Solutions.

LOW PRESSURE INJECTION MOLDING

STC now offers low pressure injection molding to support complex part geometries. We can create the most intricate and delicate componentry across a broad range of technical ceramic materials.



Capabilities

- Low shrinkage material to hold tighter as-fired tolerances
- $\pm 0.5\%$ or $\pm 0.002"$ whichever is greater depending on part size
- 0.010" min - 0.250" max component wall thickness
- Low and high volume requirements
- Odd shaped, taper, slots, keyways, threads
- Very small holes at tight tolerances

Applications

- Electrical Components
- Semiconductor Insulators
- Medical Instrumentation
- Aerospace Igniters
- Agricultural Wear Components

Materials

- 99.8% Alumina
- Yttria-Stabilized Zirconia (YTZP)
- Zirconia Toughened Alumina (ZTA)
 - under development
- Magnesia-Stabilized Zirconia (MSZ)
 - under development

Service

- STC can provide same day quote turn around, along with application and customer service to support your existing and new project needs.

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