

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
- +/- 1/2% or +/- .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.