

## Materials Outovation® Practice at Edgewater Capital



## INJECTION MOLDING

ECP's investing rationale highlighted below + interested parties invited to contact ECP.

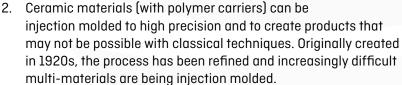
## INTRODUCTION

Injection molding has been around for over 100 years and is a widely used manufacturing process encompassing polymers, metals, and ceramics.

Edgewater's investing strategy emphasizes a high degree of technical differentiation. Thus ECP is interested in only a narrow segment of the Injection molding space.

Differentiation in injection molding can arise from:

- 1. Multi-shot injection molding
  - a) Pictorial example of two shot injection molding below
  - b) An online article: <a href="https://www.spark-mould.com/two-shot-molding/">https://www.spark-mould.com/two-shot-molding/</a> highlights the ability to create products with "incompatible" materials

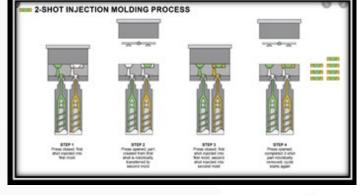


- a) See pics from Coorstek web site.
- 3. Custom tailoring of polymers (e.g. silicones or nano-fillers in epoxies) to promote curing either *insitu* in the mold or shortly after ejection (without a secondary processing step).
- 4. Use of modeling to precisely estimate the flow of the product in the mold can reduce design iteration time.

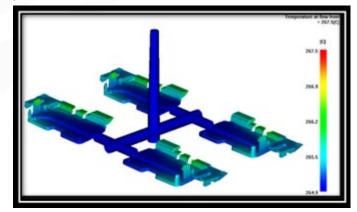
  Experienced application engineers (leveraging modeling) can help differentiate a company's offering from others that may have identical
  - a) Example: Gillette Trac III or Track V razor (holder).
- 5. End industry differentiation.

equipment.

 a) Focusing on medical devices / medical market may offer significantly higher margins that are conventionally associated with automotive.







Profitability Accelerated Growth Safety Synergy Innnovation Outovation New Products®