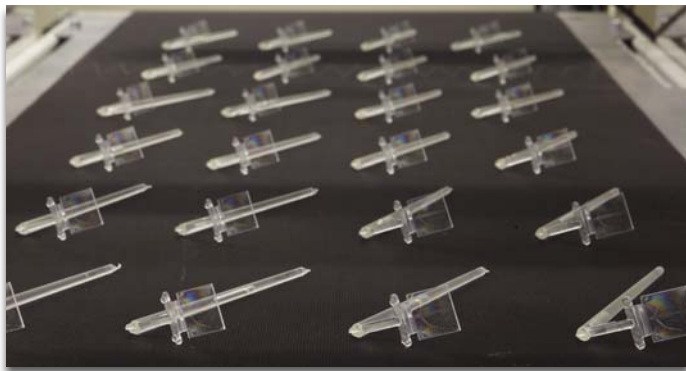


Molding

polymer injection molding for smart consumables



efficient mass production

APPLICATION

efficient mass production of customized products from quantities as low as hundreds up to millions of units

HIGH LEVEL OF QUALITY

More and more high quality components for life science and diagnostic applications are produced using polymers. Three key factors are driving this trend:

- After creating a mold, polymer chips can be manufactured in high volumes more cost effectively than glass with a minimum of working steps.
- A wide variety of polymers with different physical and chemical properties are now available in the market, enabling the replacement of traditional materials such as glass, metal or silicon etc.
- Plastics offer greater scope in terms of product design. Even highly complex structures can be reproducibly manufactured in high volumes.

The challenge is to strike the right balance between superior quality and high cost effectiveness.

CORE CAPABILITIES

- prototypes can be molded in disc format with short lead time
- specific molding technologies (e.g. variotherm, injection compression)
- aspect-ratio > 10:1 is possible

YOUR BENEFITS

- OEM manufacturing – set-up process & manufacturing
- co-development – part & process development
- dimensions & tolerances
- physical properties
- fully automated scalable one-step production with optimizing cycle times
- no demolding agents used – minimal influence of polymer on assays
- low background fluorescence
- superior flatness similar to the best microscope slides
- high replication accuracy
- extensive in-line QC



fully automated production