

Processing
Eastman Tritan™ copolyester in existing Molds



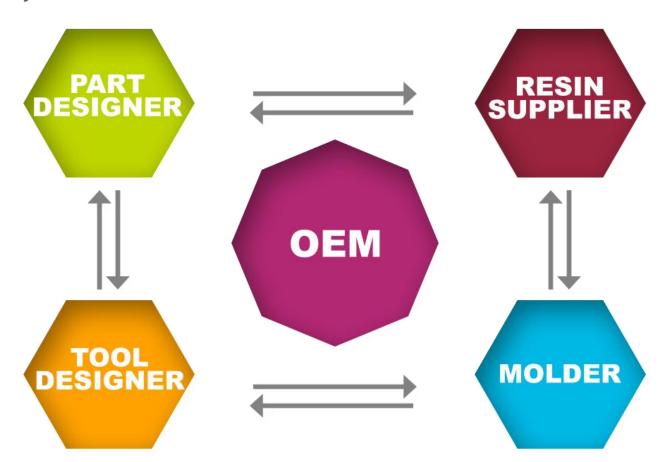
What makes for successful molding of Tritan™ copolyester?





Project team

Chances of success in injection molding application development projects are increased with early involvement of all major stakeholders:



AVOID THE TRAINWRECK





Part design – keys to success

- Proper resin selection
 - Based on an understanding of part fitness for use needs from the OEM
- Design parts with reasonable fill pressure/fill pattern/volumetric shrinkage
 - Eastman Design Services uses mold filling simulation to evaluate customer part designs for "Moldability" with a particular resin.
- Design parts with a gate location in mind
 - Location should be selected based on an evaluation of part aesthetic requirements, mechanical loading requirements, and fill pattern
- Design parts with a plan for ejection
 - Considerable forces can be placed on parts during ejection. Parts must be designed to withstand these forces without deforming
- Eliminate sharp notches
 - Rounded corners make tough parts



Tooling design – keys to success

Proper Gating Selection

 Select a compatible gating style for the selected resin. Most conventional cold gating styles work well with copolyesters. For hot runner systems, valve gates should be used.

Design Tooling with good Cooling/Thermal Control

 Copolyesters require good thermal control throughout the cavity for optimal processing.

Design Tooling with a plan for venting

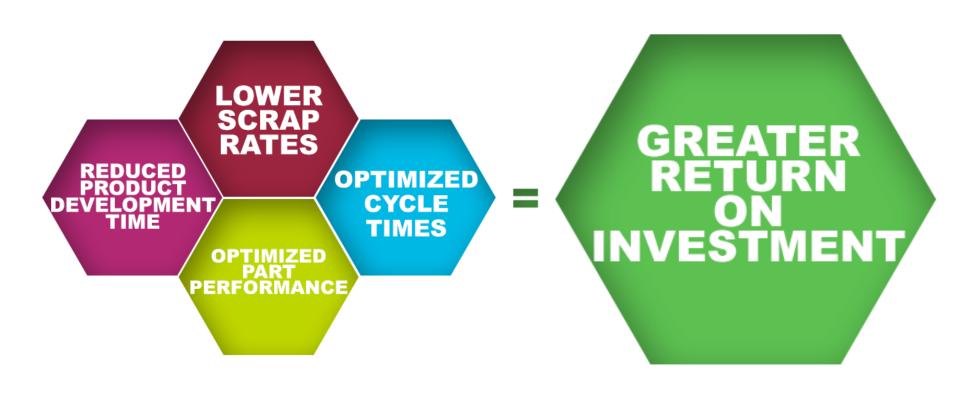
Poor venting can result in burn marks and incomplete fill.

Design Tooling with a plan for ejection

 Parts should be adequately supported during ejection to avoid part deformation/breakage



Benefits of collaboration



For more information, visit TritanMoldIt.com