

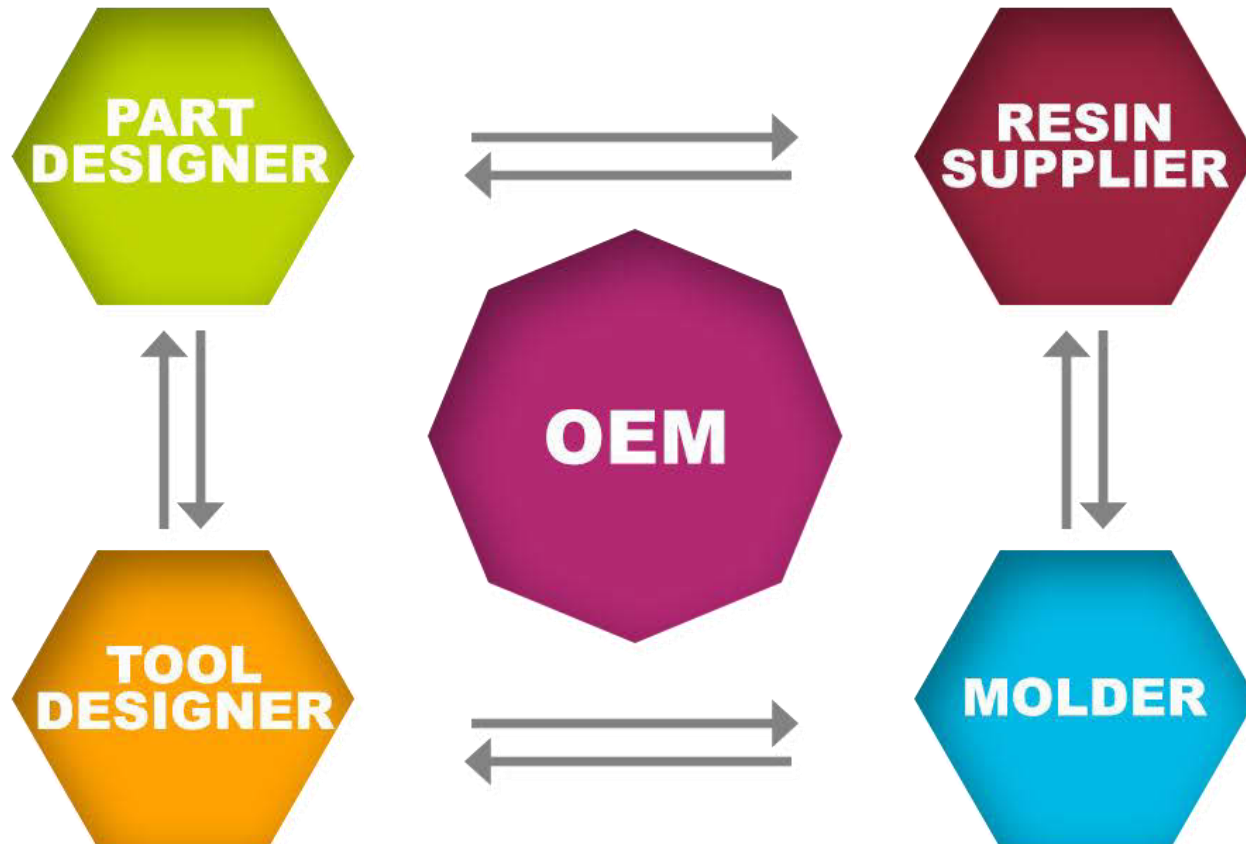
Processing
Eastman Tritan™ copolyester
in existing Molds

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.

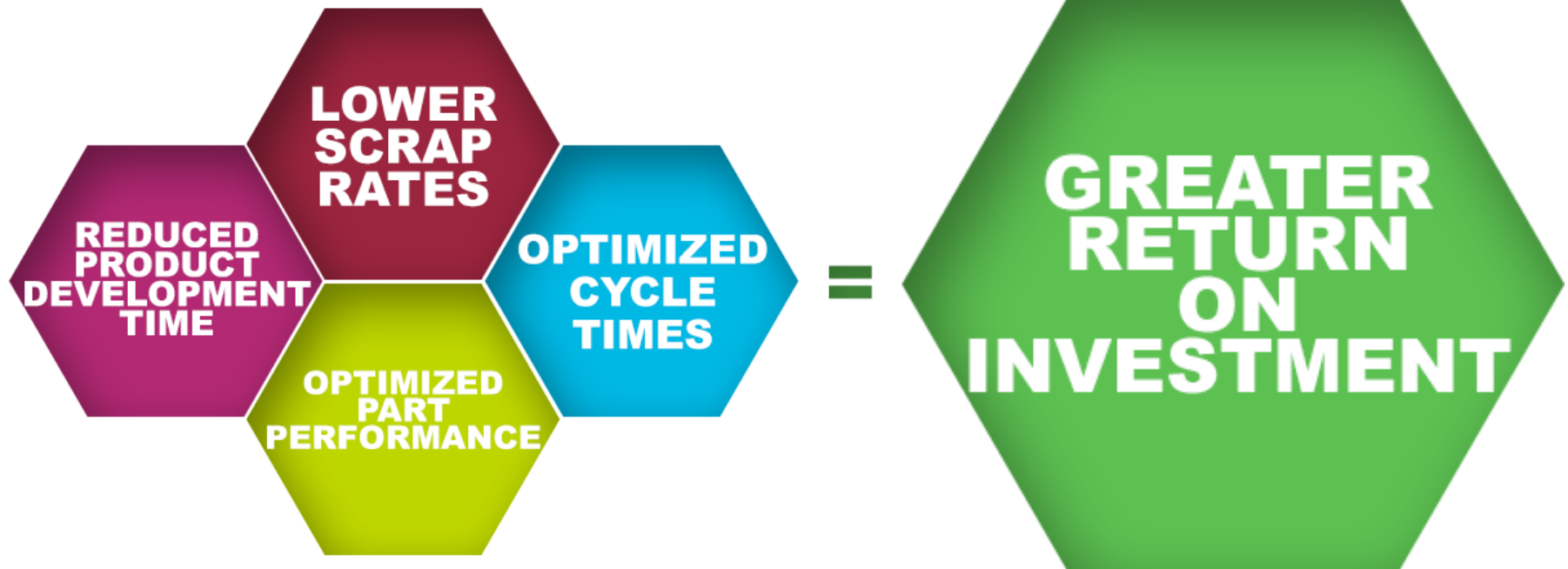
■ **Design Tooling with a plan for venting**

- 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**