

Outstanding results

The combination of variothermic processing with contour-following tool temperature control.

Benefits of variothermic processing:

Je wärmer die Kavität während des Einspritzvorganges, umso:

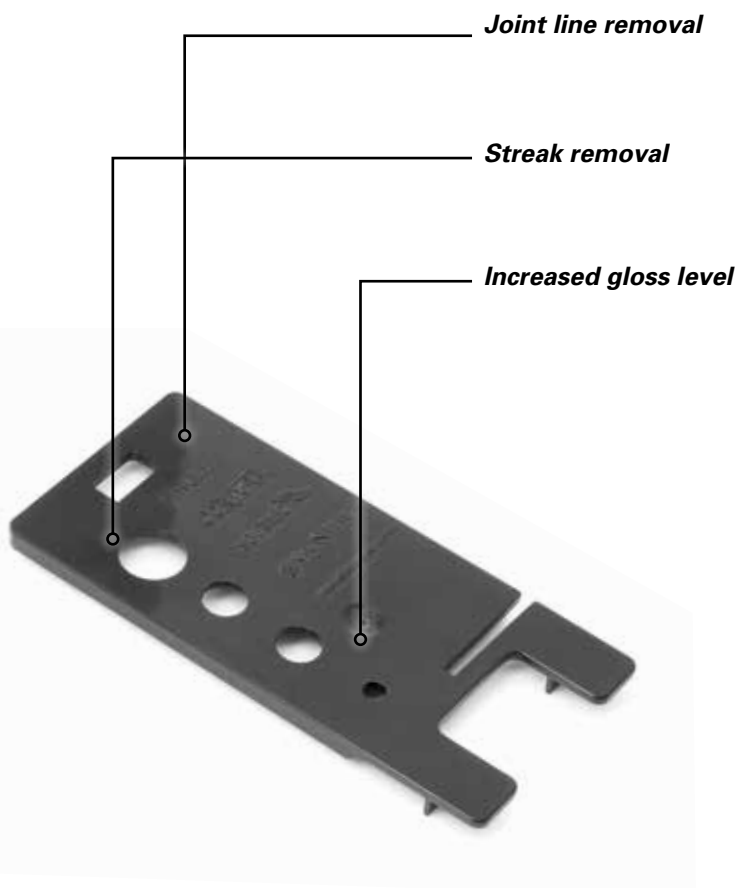
- Reduced visible flow lines and silver streaks
- Greater homogeneity during the orientation of glass fibres
- Reduced visible joint lines
- Reduced risk of warping due to shrinkage
- Improved dimensional stability and consistency
- Better mechanical characteristics
- Reduced sink marks away from the sprue



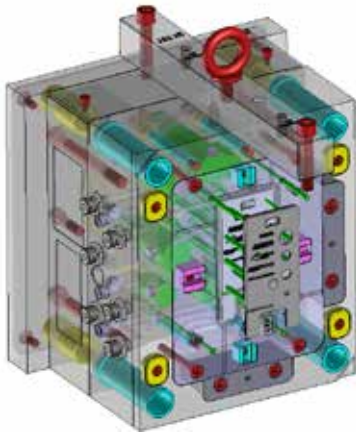
Perfect surfaces

Economic efficiency due to:

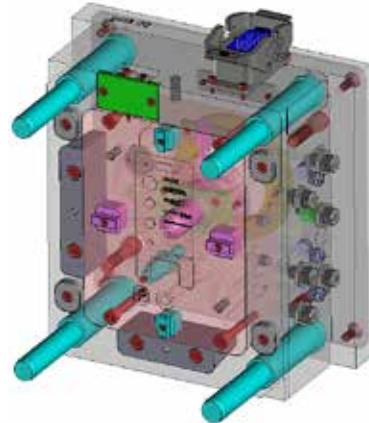
- Reduction of the scrap rate
- Reduction of the cycle time
- Elimination of subsequent coating or foil back injection to achieve high-gloss surfaces
- Elimination of mechanical post-processing



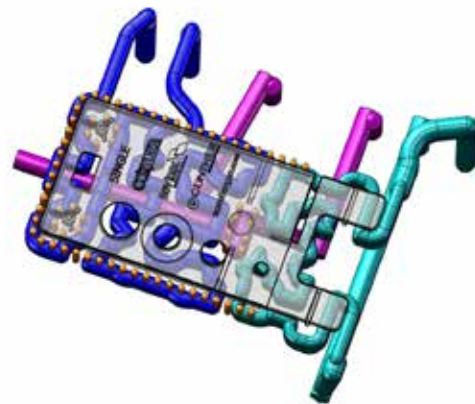
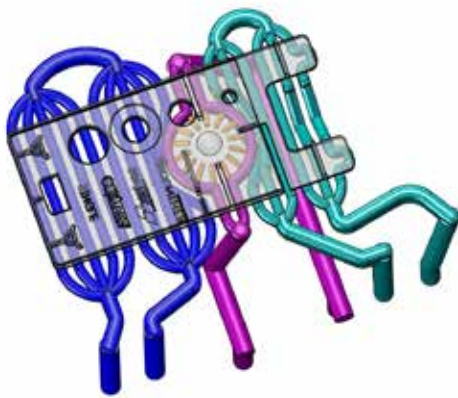
Representation of the sample tool for variothermic processing



Location of the variothermic, contour-following tempering channels on the nozzle side (visible face), divided into three zones.



Contour-following temperature control on the injector side. Controllable in three different cycles.



Typical applications:

- Injection molding or compression molding tools, tool inserts with cooling channels close to the cavity
- Typical tool temperature range over 100°C; up to max. 180°C
- Plastic components with high quality requirements

Heating and cooling according to the injection cycle

- Over 100 K temperature difference between heating and cooling operation on the cavity
- Very high ability to improve the quality of injection-molded parts and/or the cycle time
- Easily integrated into standard tools

