

Two compartment container

Moldflow analyses are a precise tool as being used by BPO to simulate the filling of injection molded plastic parts. A good example of this is a two-compartment container that was optimised for filling. The compartments are filled with yogurt and jelly so the consumer can mix them. The product was in the past without In Mould Label (IML), so the main issue was to implement that in the new shape. This necessity was used to optimise the container for better (injection) performance which should lower the production costs.

The three compromising demands we had to meet were:

- The equal filling of the two compartments for operational stability for the IML and clamp force reduction/optimisation.
- The weld lines preferably had to meet at the breakline between the two compartments.
- The injection point of the large compartment had to be as close to the sidewall as possible, to comply with the request for the largest possible IML in the bottom.

These demands were translated into an optimised wall thickness throughout the whole product. Which was implemented into CAD by means of flowleaders in the bottom, sidewalls and compartment corners.

Through this optimisation all demands were met and yet another successful product was released in cooperation with BPO.

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Press release



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