

Fast Moving Consumer Goods

Ritemp advances in-mould cooling for complex part geometries, to deliver improved cycle times, part quality, and production yield.

In multi-impression moulds, Ritemp cooling provides excellent gate witness through superior gate control with defined thermal separation. The Ritemp cooling system design means mold bases can be standardized for rapid mould manufacture.

In Ritemp cooled hot-halves with high cavitation, thermally balanced plates enable tight pitching, with improvements in fill balance and valve pin function.



challenge

Reduced cycle time, and IMM size requirements for spout moulds

current mould/ part characteristics

Conventional:4 cavity

Current Cycle Time:11.8 sec

part details

Weight:10.0 g

Nominal Thickness:0.90mm

Maximum Thickness:1.70mm

Material:HDPE

evaluation

1. Part analysis used to determine optimal curing time using Ritemp
2. Projected NEW cycle time reduction of 4.3 seconds
3. Cooling chamber can cover 100% of part geometry

Ritemp™ benefits



36% reduction in cycle time



75% reduction in water cooling GPM's



4.3 second per cycle savings



Improved gate vestige



Reduced mould maintenance

challenge

Current food container required mould design standardization

current mould/ part characteristics

Conventional:1 cavity

Current Cycle Time:3.8 sec

part details

Weight:20.0 g

Nominal Thickness:0.45mm

Container Capacity:650ml

Size:175x120x50mm

Material:PP

evaluation

1. Part analysis used to determine optimal curing time using Ritemp
2. Projected NEW cycle time reduction of 1.3 seconds

Ritemp™ benefits



35% reduction in cycle time



Excellent gate cooling



1.3 second per cycle savings



Condensation eliminated



Standardization of moulds



Start up: Sellable parts in 2 shots