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Solution Provider for Rubber Industries



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Rep International - TurboCure® 2010 - A

TempInverter® and FillBalancer®:

a Double Solution for a Maximum Performance

TurboCure®



TempInverter®

provides the highest temperature where it's necessary



FillBalancer®

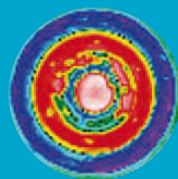
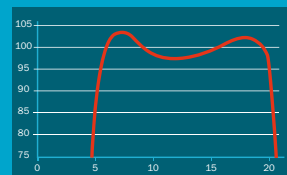
for a perfect thermal and filling balance between cavities

In the injection unit

Available on REP Y-type injection units

Temperature dispersion in the flow from the nozzle

Without TempInverter®

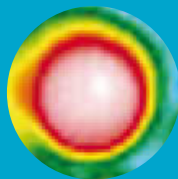
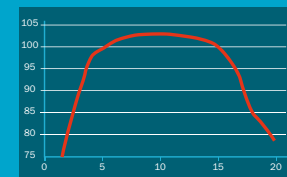


Inside the injection unit itself, TempInverter® avoids the laminar effect and increases the temperature in the center of the flow right at the time of injection.

The central part of the cavity increases consequently by 10 °, without increasing the maximum temperature, and without affecting the final mechanical properties.

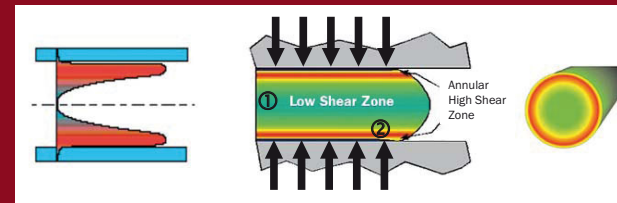
Patented by Rep International: FR07 57746

With TempInverter®



Injection Molding: a Non-Homogeneous Laminar Process

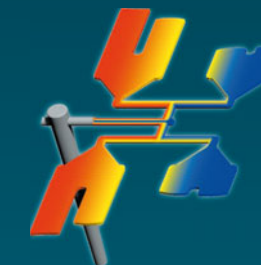
Compound warm-up by shear ① (different speed between the inside and outside layers of the compound) and through the contact with the mold walls ②. The result is: the center of the compound flow is at lower temperature.



In the mold

For new or existing molds

Without FillBalancer®



This patented, exclusive REP process, guarantees an ideal distribution of the compound, preventing the temperature disparities from causing irregular fillings. By increasing the temperatures in the coldest areas, one can avoid overestimating the time for curing.

With FillBalancer®



FillBalancer® also permits control of temperatures inside the cavities, so that the hottest compound is located in the critical point.

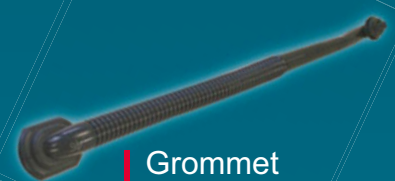
using MeltFlipper® technology - Patented by Beaumont Technologies Inc. U.S.A.: 6.077.470 & 6.503.438

Guaranteed Benefits

Industrial Advantages

- Cure time reduction
- Injection time reduction
- Material flow ability improvement
- Scorch risk reduction
- Distribution and cavities balance improvement
- Physical property improvement
- Bonding improvement
- Flash reduction
- Energy consumption reduction
- Labor reduction
- Lower scrap rate
- Capability improvement

Some industrial results of cure time reductions in operation with TempInverter® only ...



Grommet
- 40 %



Plate heat exchangers gasket
- 43 %



Bladder
- 20 %

Gasket
- 63 %



Some industrial results of cure time reductions in operation with FillBalancer® only ...



Bracket
- 25 %



Bushing
- 42 %



AVS Mount
- 40 %



Wedge
- 69 %

