

## Multifunctional Processing Aids for PLA: Injection Molding with Licomont CaV 102

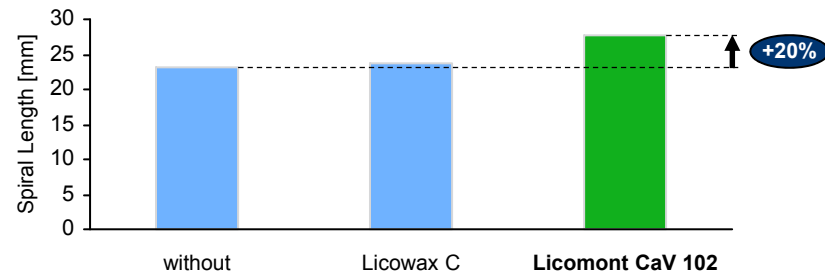
### Challenges in PLA injection molding:

- Injection molding: well established with manifold applications like packaging of cosmetics and other consumer goods; automotive (under the hood)
- State-of-the-art lubricant solution with amide wax (Licowax C).
- **Challenges:** Insufficient mold filling with thin articles, poor crystallization behavior, instable lubricant under high shear → Mold deposits, bad printability

### Additional advantages with Licomont CaV 102:

- 1 Better mold filling of thin-walled articles:**
  - Very good flow improvement
  - No polymer degradation
- 2 Faster injection cycle and increase in productivity by 20%:**
  - Positive effect on crystallization temperature
  - Reduction of cycle and cooling time
- 3 Improved surface post-treatment**

### 1 Flow Properties of PLA with 0.5 % lubricant: 20 flow improvement using Licomont CaV 102



### 2 Cycle time reduction by 20% using Licomont CaV 102, due to better lubrication and nucleation

