polytives

*b*FI

Polycarbonate in Focus: Strong Performance, New Opportunities

Polycarbonat (PC) is a high-performance engineering plastic that offers excellent impact resistance, dimensional stability, and thermal resilience. It is widely used in automotive and electrical engineering, construction, and medical technology. However, processing remains challenging: relatively high processing temperatures, sometimes long cycle times, and narrow process windows limit energy efficiency and cost-effectiveness.

Innovative process optimization

Our polymeric additives enhance new possibilities in PC processing, without any migration or change in mechanical properties. They act directly in the melt, specifically reducing viscosity and expanding the processing window.

- Processing temperatures can be reduced by up to 50 °C.
- Cycle times are reduced by up to 40%.
- Processing pressure can be significantly reduced.

Less energy. Higher efficiency. Stable processes.

Resource savings result in cost reductions of up to 15% across the entire process. At the same time, you benefit from reduced tool wear, lower thermal stress on the material, and consistent component quality.

Would you like to know what is possible in your process?

Then feel free to get in touch with us or request a sample directly. We will accompany you from initial contact through sampling to process integration. Fast, reliable, and solution oriented.

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Fig. 1: Influence on the melt volume flow rate (MVR) of PC when using the polymeric additive *b*FI A 3745.

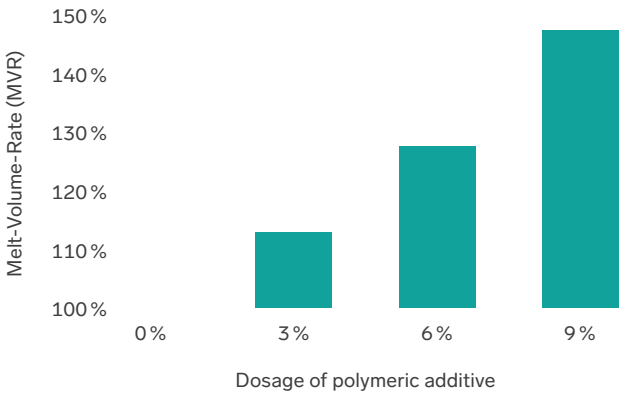

Fig. 2: Influence of the polymeric additive *b*FI A 3745 on the thermal and mechanical properties of PC.