



Abstract Renewable Materials Conference

Shaping the future with wood

The wood-plastic-composite (WPC) material class is often associated exclusively with products such as decking boards. However, we believe that this material is a sustainable alternative for a wide range of fossil-based products. Using wood-based and fully renewable materials for packaging of fast-moving consumer goods (FMCG) allows us to offer a high quality and environmentally friendly alternative for various products. The process technology poses a major challenge. High-quality injection molding of thin-walled, complex structures from a WPC requires precise process control. In addition to the technological hurdles, compliance with the specifications is relevant for the products' use in the e.g., food industry. Following the successful launch of our pilot product, the wooden coffee capsule, the raw material is currently being continuously developed and made available for new applications in the cosmetics and agricultural industries. Regardless of the application, we always take the approach of using nothing but bio-based ingredients to make a real positive impact on the environment. In this presentation, we want to talk about hurdles companies are faced when searching for sustainable alternatives to conventional polymers, what solutions we found to overcome these and of course the various advantages of WPC as a versatile and renewable material.



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