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SUGRA – INNOVATIONS IN BIO-BASED ADHESIVES

Adhesive bonding is the most significant joining method in the packaging industry for sealing packaging materials, such as folding cartons or corrugated cardboard boxes. In recent years, there has been a growing interest in ecological aspects in paper and packaging manufacturing industry, such as sustainable resource utilization, environmental compatibility, and recyclability. Product and food safety must also be given more weight in the transition to sustainable packaging. These trends are primarily driven by increased environmental awareness among consumers, as well as regulations (such as the packaging and packaging waste directive), as most packaging materials and sales packaging have a relatively short lifespan. Substituting or reducing synthetic, petrochemical adhesives is essential for realizing a more sustainable packaging production.

This presentation will introduce the research project SUGRA (Sustainable Gluing with Renewable Adhesives), supported by the Association for Renewable Resources, and present trends in adhesive development, as well as material analysis and testing.