

Focus on Sustainability: Biomass-based Adhesives

Background and Idea

Development has been initiated by

- **Market pull:** Customer requirements, such as „Do you have products on renewable basis... biodegradable?“ Part of “sustainability” programs, “carbon footprint” discussions.
- **Technology push:** Availability of “standard” raw materials which may be used for adhesives, too. “Biomass-based” is regarded as novel and relevant characteristic. New offer for PLA-based adhesive raw material.

Realization

Necessary competencies / tools

We have the required experience with laminating adhesives and facilities to produce and screen adhesive formulations.



Milestones

- April 2009: Workshop during the Meeting of the FPE - the European forum for the flexible packaging industry: “Which importance have renewable raw materials for the converting industry?”
- September 2009: Press release
- September 2009: Sample production with Bischof + Klein



Promotion pouch with B+K

Highlights: State of Development

Solvent-based: ASF-668 + aliphatic polyisocyanate

PLA based; main focus is the use in biodegradable laminates. This adhesive is partly biodegradable. As of such only a small part in the whole laminate may be not degradable. The use of PLA-based adhesives instead of classical PU adhesives allows for a reduction of the film thickness without change of requirements.

Consequently the laminate can be manufactured at lower cost though a relatively expensive PLA-based adhesive is employed.

First trials with customers have been carried out successfully. Promotion samples together with B+K have been produced.

Solvent-free: ASF-600 + aliphatic polyisocyanate

Use of renewable raw materials, main focus is “sustainability”, “carbon footprint”.

Price level and performance comparable to standard products based on crude oil.

First trials with customers have been made.

For further information please contact Ralf Dickmann
ACTEGA Rhenania GmbH, Rhenaniastraße 29-37,
D-41516 Grevenbroich, T +49 (0) 2181 294-147
ralf.dickmann@altana.com