

Uhde Inventa-Fischer's Technologies for the Production of Biopolymers

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Abstract: Uhde Inventa-Fischer (UIF) is a forward-thinking, innovative engineering company. The core competence is the design and construction of state-of-the-art polymerisation plants to produce polyesters and polyamides as well as polylactide (PLA). UIF offers sustainable technologies that combine engineering expertise, specialist know-how of polymers and applied experience in a wide range of industrial applications worldwide. On the basis of our proven processes to produce commodity polymers UIF has developed new technologies for the production of biobased and/or biodegradable polymers, as for example PBS, an aliphatic polyester synthesised from succinic acid and butanediol, PBAT or PEF, a polyester with outstanding properties, based on 2,5-furan dicarboxylic acid. A complete new process has been developed for the production of Polylactic Acid (PLA). Incorporated in the development was UIF's long-term experience with equipment for polycondensation reactions and ring-opening polymerizations. For all processes to produce biopolymers pilot plants are available. The presentation focuses on the above mentioned aspects. It includes:

- Details of the process technology,
- Highlights of the UIF's proprietary equipment.
- Scope and purpose of the pilot plants
- Properties and qualities of the biopolymers.

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Further information on the Congress: www.polykum.de/biopolymer-2018