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ENGINEERED LACTIC ACID COPOLYMERS FOR BIOBASED AND COMPOSTABLE HOT MELT ADHESIVES

Lactic acid based polymers are interesting especially because of their biobased feedstock and industrial compostability, however they never really made it into (hot melt) adhesives so far. With our Sentiall® technology platform we think we can change that. By combining lactic acid and other monomers intelligently and engineering the polymers from the ground up, we are able to make polymers for the hot melt adhesive market.

Corbion is a world-leading lactic acid producer. The lactic acid is produced by fermentation of sugars and therefore is certified biobased and has a negative carbon-footprint from cradle to gate. A great place to start from. Combining this with comonomers we can create copolyester thermoplastics with interesting properties for hot melt adhesives. We were able to achieve this due to clever polymer engineering and a good understanding of hot melt formulations and applications.

During the presentation we will go into the value of lactic acid as a monomer, the properties of the resulting copolymers and the value it can bring to our customers. We will focus on performance and end-of-life options, such as recycling and composability, including some examples and possible applications.