

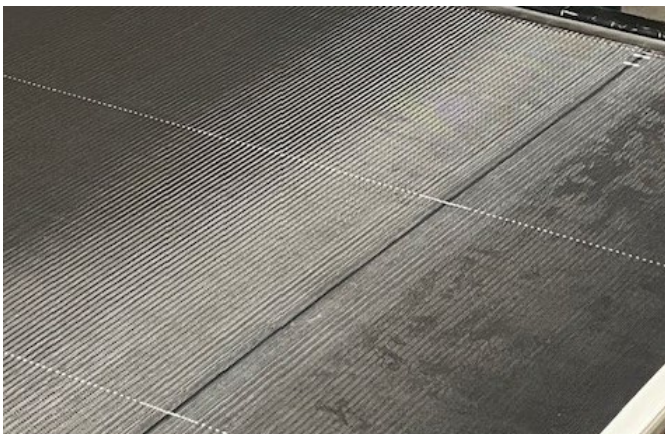
SievBioBelt – Sieve belt for biomaterials

Problem / Motivation

- Strong adhesive properties of new biopolymers
- Difficult detachment of the nonwoven from the sieve belt
- Strong adhesion properties require a higher draw of pilot plant and prevent high speeds of the sieve belt, which means that low fabric weight cannot be produced

Solution

- Development of a demonstrator for project testing in cooperation with screen belt manufacturers
- For the installation of the 1.4 metre wide and 20.3 metre long sieve belt demonstrator in the STFI spunbond plant, a conventional seam closure with three single threads of 0.6 mm diameter was selected
- Modification of the sieve belt in terms of topography, roughness and air permeability
- The aim is the creation of an optimised adhesive property by manipulating thread density, sieve belt surface and sieve belt post-treatment



Seam of a sieve belt with a deposit width of one metre

Project Launch

06/2024

Project Partner

currently none,
open for enquiries

Acknowledgement

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