

rTape4Performance – Enhancing the potential of rCF tapes via maximum technological optimisation of materials

Problem / Motivation

- Ongoing search for new materials and manufacturing technologies to improve the cost-benefit ratio in lightweight construction
- Focus on sustainability and recyclability in light of the current climate situation
- Increased commercial interest in the reuse of rCF in textile and composite structures
- Increasing potential to maximise the optimisation of materials and performance characteristics



Solution

- Development of an analytical approach for evaluating the degree of dissolution to improve pile homogeneity
- Development of a binding process to reduce the variety of materials used in semi-finished tape products (partner: Cetex)
- Development of a material-optimized stretching process to enhance material performance
- Further improvement of processing technology and techniques to increase basis weight variability

Project Launch

08/2026

Project Partner

Cetex Institut gGmbH



rCF tape for fibre-reinforced composite applications

Acknowledgement

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