

ABSTRACT Renewable Materials Conference 2023

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Polymer architecture enabling custom-made biomaterials with tailored end-of-life

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B4Plastics is a Polymer Architecture company which focuses on the screening and scaling of novel biomaterials, towards the key product requirements and adequate end-of life (recyclable and/or biodegradable). Building onto our bio-based building blocks and bioplastics library, technology platforms were created which aim for the best balance between functionality, ecology and cost. Starting from our R&D excellence center, B4Plastics demonstrates how we create a stronger bridge from novel biomaterial development towards market. Thanks to innovative ideas starting at gram scale and strong partnerships along the value chain supporting upscaling towards ton scale, B4Plastics is able to showcase 2 novel biomaterials, namely Fortan & Rubran. Fortan, belonging to the FortePlastics platform that is representing our strongest biomaterials that can still degrade, and Rubran, product of the RubberPlastics platform showcasing sustainable elastomeric materials to help our New Plastics Economy land softly. These products are designed for high performance and engineered niche applications, such as fishing nets, textiles & sportswear, and are adapted to the adequate end-of-life. Discover where these biopolymers can be implemented, their effect on the CO₂ impact of products and how they push the New Plastics Economy forward.