



Dear Sir or Madam,

the sustainable use of energy and raw materials is a major social task that we are tackling with the Fraunhofer Cluster Circular Plastic Economy CCPE®. Plastics are irreplaceable in many applications. Questions along the value chain in the creation and recycling of plastic products can only be answered with a holistic approach. Many different competencies contribute to this. High-quality recycling begins with the selection of materials, suitable modification and considers processing and component design. With our research work on high-quality recycling, we provide an elementary building block of the Circular Economy.

We hope you enjoy reading this newsletter and would be pleased if you would accompany and support us on the way to a circular plastics economy.

Together with our customers and project partners, we want to transfer the results from research into industrial applications. Please do not hesitate to contact us if you have any ideas about projects or cooperations.

With kind regards

Prof. Dr. Frank Henning
Board of Management - Systems Division

With a joint research agenda for a circular plastics industry



How can heavily contaminated or problematic plastics be recycled? CCPE® scientists* in the Research Department Advanced Recycling of the Systems Division are working on this question. Their research focuses on materials such as carbon fiber reinforced plastics (CFRP) and glass fiber reinforced plastics (GRP), which are used to manufacture wind turbines and rotor blades, for example, but also thermosets, resins and residues from the processing of electronic scrap (printed circuit boards) and end-of-life vehicles (brake pads or air filters) or sorting residues. Dr. Alexander Hofmann from the Fraunhofer UMSICHT in Sulzbach-Rosenberg explains in an interview why these

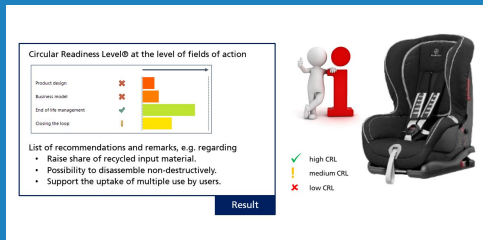
material flows are difficult to recycle and what options pyrolysis offers for recycling.

MORE INFO

News from the CCPE research

Division Business

How mature is your product for the Circular Economy?

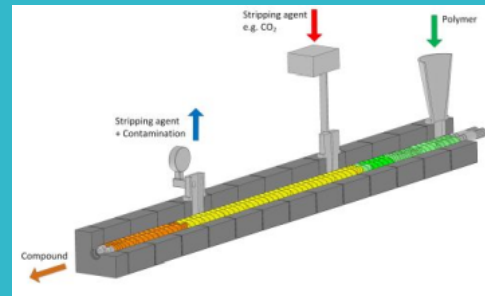


The Circular Readiness Level® (CRL) indicates the extent to which principles of the Circular Economy have already been taken into account in a product or product system. Fraunhofer CCPE® has developed a Self-Check for the Circular Readiness Level® of products and product systems and invites companies to test the Self-Check CRL.

MORE INFO

Division Systems

Recyclates that do not smell - we show how it's done



Many subtle messages play a role in customers' purchase decisions. Odors and emissions are such factors, which, along with haptics, are an essential component for product success. CCPE® researchers are therefore working on the reduction of odors and emissions from recycled plastics.

MORE INFO

Division Systems

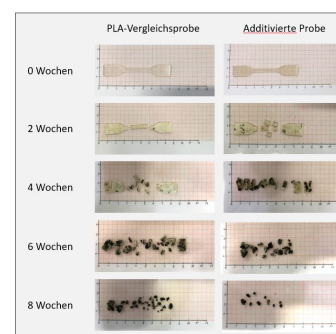
Sustainable and intelligent: returnable transport solution for the food sector



Increasing shipping volumes and the customer's desire for environmentally friendly packaging are ideal factors for the introduction of sustainable reusable transport solutions in the B2C sector. Researchers at the Fraunhofer CCPE® have set themselves the task of tackling this topic holistically in the sense of a Circular Plastics Economy.

Division Materials

Additives accelerate degradation of bioplastics



Short cycle times in composting plants often prevent the degradation of plastics that are in themselves compostable. Therefore, the Fraunhofer LBF develops additive systems that accelerate degradation and reduce the necessary composting time. The result: greater acceptance of biodegradable

plastics.

MORE INFO

MORE INFO

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Umsatzsteuer-Identifikationsnummer gemäß § 27

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Umsatzsteuergesetz: DE 129515865

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