

CCPE Newsletter 1/2023



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The transformation to the circular economy is nothing less than the transformation of the previously established and lived economic logic. The rethinking of products, their use, the handling of products, components or materials, the end-of-life of products and the underlying business model transformations span a broad field of development. We want to shape this transformation together with companies, society and politics.”

Prof. Dr.-Ing. Manfred Renner  
 Head of Fraunhofer CCPE | Head of Fraunhofer UMSICHT



Get into the loop - How plastics are becoming more circular



In conversation about the R-strategies of the circular economy and the establishment of the circular economy with Prof. Dr.-Ing. Manfred Renner, head of the Fraunhofer CCPE. Furthermore, he also tells about his function as head of the Fraunhofer Cluster of Excellence Circular Plastics Economy CCPE and announces the next Fraunhofer CCPE compact on May 4, 2023 with the topic "Recyclates in Primary Material Quality - Status and Perspectives of Advanced Recycling".

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News from the CCPE research

**Next generation thermoplastic polyester elastomers**



Plastic products are under criticism. In the future, truly sustainable plastics must be built exclusively from renewable carbon (eC) 1. Plastic recycling as an eC source will play an

**Analytical methods for testing odor minimization in recyclates**



The demand and thus also the requirements of recyclable products, such as recycled plastics, are increasing. Fraunhofer

essential role but will not be sufficient under the assumption of constant plastic production. Therefore, virgin material from biomass is also needed!

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researchers have set themselves the goal of meeting the qualitative demands placed on such products and developing processes for obtaining recyclates at the quality level of virgin materials. One of these qualitative characteristics is the smell of the products.

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**Digital product passports -**  
Provide information on products in the circular economy in a way that is comprehensible



Digital product passports are currently one of the most promising technological approaches for improving information transparency along the value chain. Researchers at Fraunhofer CCPE are looking into the possibilities of using digital product passports to improve end-of-life decisions.

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**Business Model Innovation in the Circular Economy -**  
Transformation into a sustainable future



The transformation to circular, sustainable value chains poses major challenges for many companies. However, the biggest challenge is often not a lack of know-how or determination, but the question of "getting started", of how and where.

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## You can meet us here

May 04, 2023

**Fraunhofer CCPE compact:  
Recyclates in primary material  
quality - Status and perspectives  
of advanced recycling**

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May 06 - October 15, 2023

**Fraunhofer CCPE in the  
exhibition "World Trade. History,  
Present, Perspectives"**

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May 29 - 30, 2023

**Forum Plastic Recyclates 2023**

May 16-17, 2023

**Foam Technology Days 2023**

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