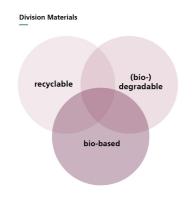


Mulch films in use – What happens during degradation, PBS as a biodegradable polyolefin substitute, Circular design using the example of a reusable transport box, Fraunhofer LBF to become organizer of the Forum Plastic Recyclates 2022 Fraunhofer Cluster Circular Plastics Economy CCPE Contact | Website | View Online

CCPE Newsletter 1/2022



Plastics of tomorrow - what should they be like?



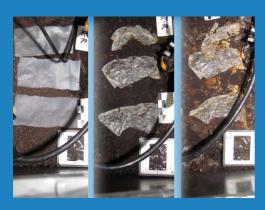
It is hard to imagine everyday life without plastics. Due to low prices, easy processing and great variety of properties, they conquered many applications. However, they also have their downsides, because rising plastic waste increasingly pollutes the environment. Their contribution to the climate crisis is another negative side of the material. In our online workshop, we will discuss what tomorrow's plastics should be like: recyclable, bio-based or degradable – and what these properties are all about.

MORE INFORMATION

News from the CCPE research

Division Materials

Mulch films in use – What
happens during degradation?



PBS as a biodegradable polyolefin substitute



In addition to conventional ones, mulch films made of biodegradable plastics are increasingly being used in gardening and agriculture. CCPE researchers studied their degradation behavior under real environmental conditions and evaluated the influence of moisture, soil and UV light on the rate of degradation.

The polyolefins PE and PP are multifunctional plastics that shape our lives in many areas – at the same time, however, they cause a lot of waste in the environment. Nevertheless, it is neither possible nor reasonable to avoid using polyolefins. Rethinking plastics is therefore the premise of CCPE research. The consistent further development of bioplastics such as PBS is an important focus here.

MORE INFO

MORE INFO

Division Business

Circular design by the example of a reusable transport box



Event information

Fraunhofer LBF to become organizer of the Forum Plastic Recyclates 2022



Fraunhofer CCPE's "reusable transport box" demonstrator combines the potential of circular plastic compounds with innovative manufacturing processes for component production. Newly developed PLA-based monomaterial approaches, bio-based foams with functional additives and odor-optimized recyclates open up promising design opportunities for the realization of circular product designs.

The Forum Plastic Recyclates will now be operating under new management:
Fraunhofer LBF in Darmstadt will now be assuming responsibility for operative planning of the event and will put together the conference program along with the experienced advisory committee. The fourth Plastic Recyclates Forum will be held on March 24, 2022.
As before, the functional emphasis will be on mechanical recycling.

MORE INFO

MORE INFO

You can meet us here

24 February 2022

Online-Workshop Fraunhofer CCPE compact: 22.- 26. August 2022

Exhibition ACHEMA 2022 in Frankfurt/Main 19.- 26. October 2022

Exhibition K 2022 in Dusseldorf Visit us at the joint

Plastics of tomorrow - What should they be like?

Visit us at the joint exhibition booth of the Fraunhofer-Gesellschaft Hall 6.0 Booth C76.

exhibition booth of the Fraunhofer-Gesellschaft Hall 07 Booth 70SC01.

TO ACHEMA 2022

TO K 2022

CCPE Media library

Test how circular your products and product systems already are: Self-Check Circular Readiness Level (CRL)® or watch the CRL® video presentation.

Read our position paper on the recycling of plastics.

Watch this video to find out more about the innovative recycling of used face masks.

Visit us at LINKEDIN for all the latest news about Fraunhofer CCPE.

We are looking forward to your messages and comments!

Your contact persons



Dr. Hartmut Pflaum Head of Fraunhofer CCPE Office

Fraunhofer UMSICHT +49 208 8598-1171

-> Send e-mail



Julia Kast Marketing Officer Fraunhofer CCPE

Fraunhofer UMSICHT +49 9661 8155-502

-> Send e-mail

© 2022 Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. As a result, the work undertaken by our researchers and developers has a significant impact on people's lives. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas. In short, we forge the future.

The Fraunhofer Institute for Environmental,

Safety, and

Energy Technology UMSICHT

Osterfelder Str. 3

46047 Oberhausen

Germany

Phone +49 208 8598-0

is a constituent entity of the Fraunhofer-Gesellschaft, and as such has no separate legal status.

Fraunhofer-Gesellschaft

zur Förderung der angewandten Forschung e.V.

Hansastraße 27 c

80686 München

Internet: www.fraunhofer.de

Umsatzsteuer-Identifikationsnummer gemäß § 27

а

Umsatzsteuergesetz: DE 129515865

Registergericht

Amtsgericht München

Eingetragener Verein

Register-Nr. VR 4461

Unsubscribe from our newsletter service.

- → Unsubscribe
- → <u>Unsubscribe from the entire institute</u>

> Tell a friend

Unsubscribe from all of our newsletter services: Please consider, that you will not receive any further mails from any Fraunhofer institution after your unsubscription.

→ <u>Unsubscribe from all of our newsletters</u>

Copyright:

Image Title,1,2,6,7: Fraunhofer CCPE, Image 3: Fraunhofer IAP, Image 4: Fraunhofer ICT, Image 5:

Fraunhofer LBF.