FRAUNHOFER UMSICHT

Foundation
- 1990

Turnover
- 22,9 million €

Employees
- 187

Branches
- Plastics processing Industry
- Packaging Industry
- Consumer goods and automotive Industry

Key materials
- Bio-based plastics and materials
- Bio-based monomers and polymers

Key products/services
- Development of bio-based materials, products and their processing technologies
- Pilot and small scale production of bio-based polymers and compounds
- Certified testing of biodegradability of substances, materials and residues

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Fraunhofer UMSICHT

Institute
Fraunhofer UMSICHT develops applied and custom-made solutions in the fields of environmental and process engineering, material and energy technology. Assuming a leading position Fraunhofer UMSICHT is committed to sustainable development, environmentally friendly technologies and innovative approaches designed to improve the standard of living and to promote the economies innovative capacity.

Fraunhofer UMSICHT is your competent partner in all phases of development and market introduction of bio-based materials. Based on our long-term scientific experience we create innovations: from the first project idea over the joint discussion of product requirements, the production of material samples to practical application tests.

Services
For industrial customers or within the scope of public funded projects we offer market research, experimental investigations, material and compound development in the fields of bioplastics, natural fibre composites bio-based foams and adhesives. Our material development is closely coupled with the optimisation of known and the research on new processing technologies.

A wide range of plastics machinery equipment in laboratory and even in industrial scale enables us to support industrial partners in large scale production implementation. Our integral material optimisation approach includes aspects like sustainability, aesthetics, design and sensory functions.

R+D Portfolio
- Development and optimisation of biotechnological processes, downstream processing
- Development of new bio-based monomers and polymers
- Material and product development
- Plastics process development
- Small scale and pilot series manufacturing of plastics compounds and products
- Polymer analyses and material testing
- Certified testing of biodegradability of substances, materials and residues
- Market and feasibility studies, technological assessments

Free access to online database with detailed index: www.bio-based.eu/iBIB