



TouchToFeel

Improve the Touch Feel of your products with material compositions that are easy to recycle and lightweight.

Polymer Competence Center Leoben

Company

The Polymer Competence Leoben is the Leading Austrian Center of Excellence for application-oriented research in the field of polymer technology and polymer science.

❖ Key figures

- Foundation: 2002
- Organisation: GmbH (Ltd.)
- Turnover p.a.: € 9 Mio.
- Employees: 135

❖ Research Topics

- Chemistry of Functional Polymers
- Simulation and Modeling
- Elastomer technologies and process optimization
- Polymers and Composites for Structural Applications
- Smart Material and Surface Testing

Chemistry of Functional Polymers
Chemistry of Stimuli-Responsive Polymers
Archim Wolfberger
Chemistry of Elastomers & Surfaces
Sandra Schlögl
Chemistry of (Nano)Composites
Frank Wiesbrock

Simulation and Modeling
Simulation Strategies for Polymer and Polymer Composite Designs
Peter Fuchs
Material Modelling for Polymer and Polymer Composite Materials
Matthias Morak

Elastomer technologies and process optimization
Polymer Tribology
Andreas Hausberger
Material Science and Testing
Bernd Schrittmesser
Processing Technologies
Roman Kerschbaumer

Smart Material and Surface Testing
Aging Behaviour of Polymers
Gernot Oreski
Robot Vision and Artificial Intelligence
Dieter Gruber

Polymers and Composites for Structural Applications
Engineering Polymers
Michael Berer
Polymer Pipes
Andreas Frank
Composite Materials
Markus Wolfahrt

PCCL
Polymer Competence Center Leoben

Project idea: TouchToFeel

Call area: Industry for a clean and circular economy

Contact

Company/Institution

Contact person (Name & Position):

E-Mail:

Telephone number:

Polymer Competence Center Leoben

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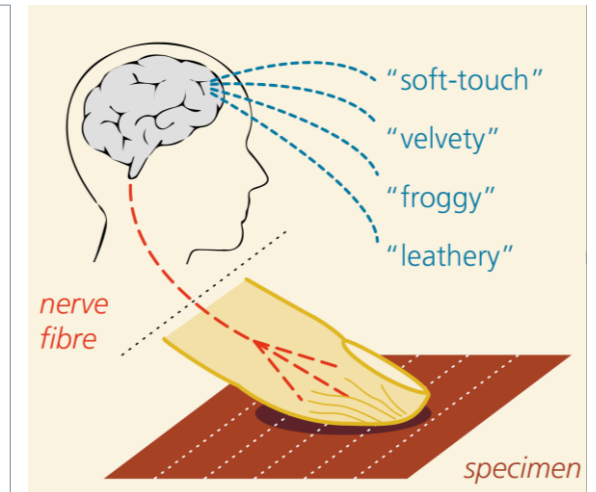
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Project Description

The scientific aim of this project is to bring the sensation of touch from a subjective feeling to a solid scientific property of a surface, which is based on physical and material parameters.

Project Objectives

- Economical and ecological manufacturing of products yielding the ideal Touch Feel.
- Create the ideal Touch Feel with material compositions that result in lightweight products that are easy to recycle.



Project idea: TouchToFeel

Call area: Industry for a clean and circular economy

Our know-how...

- **Metrological recording of the surfaces**
The surfaces are analyzed and evaluated with regard to the relevant material and surface parameters.
- **Sensory Studies**
Conduction of sensory studies to investigate the tactile effect of the surfaces.
- **Data analysis**
Development of the Artificial Intelligence to relate the material and surface parameters with the Touch Feel of the surfaces.

We are looking for...

- Company partners that cooperate in the research of new product surfaces whose haptic effect is to be optimised.
- Companies that are interested to improve the tactile effect of their products with new material compositions to enhance the recyclability and reduce weight.



ELA European
Lightweight
Association

Thank you for your attention!