

## PRESS RELEASE

### Key technology for tomorrow:

### Treofan develops thermally stable separator film for e-mobility

#### Treofan is a partner in the HiT-Cell research project

Raunheim, Germany, 3 May 2018 – Based on its tried-and-tested nano-porous TreoPore separator film, the BOPP film specialist Treofan is developing a low-loss, thermally stable and safe separator for lithium-ion battery cells as part of the HiT-Cell (High-Temperature Cell) research project. The aim is to develop a temperature-stable lithium-ion battery for all mobile and stationary applications.

Compared to currently available polyolefinic separators, the new, innovative separator will have significantly higher temperature stability. With these improved properties, the new separator film will be particularly suitable for use in lithium-ion battery cells used in electric mobility.

Although today's conventional, ceramic separator coatings do increase the safety of lithium-ion battery cells, they are not always able to prevent the separators from collapsing under thermal stress. Such coatings also lead to additional resistance in the cell. This resistance heats the cell, especially during rapid charging and discharging, which can lead to a reduction in the service life. The new separator film by Treofan will significantly increase thermal stability and thus the safety of the battery cell.

'We are delighted to be collaborating with our partners on this pioneering project and using our expertise to advance a key technology for the future,' explains Dr Franz Josef Kruger, head of the TreoPore business unit at Treofan.

The project is being led by Forschungszentrum Jülich, Germany. The project partners are:

- Treofan (development of thermally stable separator film)
- EAS Germany (project management and cell production)
- RWTH Aachen University, Germany (further development of electrode production)

- MEET Münster Electrochemical Energy Technology, Germany (development of active electrode materials)

The HiT-Cell project is being publicly funded with almost 2 million Euros by the Federal Ministry of Education and Research of Germany (BMBF) in the area of 'Battery 2020 – battery materials for future electro-mobile and stationary applications'. The project will run until the end of 2020.

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Picture 1: Treopore Separator  
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Picture 2: HiT-Cell  
© EAS Batteries GmbH

The Treofan Group is a leading global manufacturer of biaxially oriented polypropylene films (BOPP films) for packaging, labels and technical applications. Treofan has almost 50 years of experience in the BOPP market and has positioned itself as a worldwide premium provider to FMCG brand manufactures and their converters, as well as the tobacco and electrical industries. With great innovation, Treofan offers high-quality film products and tailor-made, intelligent solutions in more than 90 countries. The Treofan Group employs approximately 1,100 people and operates four production sites in Germany, Italy and Mexico. More information at [www.treofan.com](http://www.treofan.com).

**Press contact:**

Torsten Huß

Manager Marketing Communications

Treofan Germany GmbH & Co. KG

Tel. +49 6142 200 3229

Fax +49 6142 200 3202

[torsten.huss@treofan.com](mailto:torsten.huss@treofan.com)

[www.treofan.com](http://www.treofan.com)