

Asahi Kasei Europe GmbH  
April 30, 2019

## **The “Battery Show Europe” in Stuttgart: Asahi Kasei Introduces Innovative Materials for the Battery of Tomorrow**

**Düsseldorf, April 30, 2019 – From 7 to 9 May, Asahi Kasei and its US subsidiary Celgard will be presenting a wide range of high-performance materials for automotive batteries at the “Battery Show Europe” 2019 in Stuttgart, Germany.**

With over 450 exhibitors and more than 8000 visitors, the “Battery Show Europe” is Europe's largest trade fair for advanced battery and HEV technologies.

A highlight at Asahi Kasei's booth is the model of a lithium-ion battery, containing, among other things, high-performance plastics and separators. With this exhibit, the company demonstrates the range of its products for safe, efficient as well as compact structural parts and components for batteries.

This includes the high-performance plastic m-PPE (modified polyphenylene ether) as an innovative material solution for structural components of the battery housing. The m-PPE thermoplastic XYRON™ is electrically non-conductive and is characterized by its low density and resistance to electrolyte fluids. This makes it a suitable material for lightweight and compact battery housings.

With the m-PPE particle foam SunForce™, Asahi Kasei offers a product that is distinguished by a high flame retardance (UL94 V-0), high formability and high thermal insulation properties. The engineering plastic thus contributes to the compact design of the battery housings and increases the safety and efficiency of the batteries. At the same time, the material is highly processable: The foam beads are manufactured with steam moulding. In contrast to other materials processed by injection moulding, tooling costs can thus be kept low.

In addition to m-PPE, the company – as one of only four fully integrated suppliers of polyamide 6.6 worldwide – presents the product grades SN and SG of the LEONA™ PA 6.6 series as materials for battery components that contribute to reducing costs and weight.

Since Dr. Akira Yoshino, research associate at Asahi Kasei, developed the very first functional and safe prototype of a lithium-ion battery in the early 1980s, the company has been a pioneer in the field of lithium-ion battery research. As world market leader in lithium-ion battery separators, the Asahi Kasei Group is today considered as a substantial material supplier for the battery industry.

Asahi Kasei's US-based subsidiary Celgard is a global leader in the development and production of high-performance membrane separator technology and can look back on more than 40 years of market-leading research, development, and manufacturing expertise. The separators are used in a broad range of energy storage applications including rechargeable lithium-ion batteries, disposable lithium batteries and specialty energy storage.

Asahi Kasei and Celgard exhibit at booth **1137**.

**About Celgard**

Celgard is a wholly-owned subsidiary of Polypore International, LP., an Asahi Kasei Group company, specialized in highly-engineered microporous membranes used in electric drive vehicles, energy storage systems and emergency backup power systems, portable consumer electronic devices, cars, trucks, buses, and forklifts. As a global high-technology company based in Charlotte, North Carolina, Polypore is highly regarded in the market with manufacturing facilities or sales offices in nine countries serving six continents. For more information, visit [www.celgard.com](http://www.celgard.com).

**About Asahi Kasei**

Asahi Kasei Corporation is a globally active diversified company with operations in the Material, Homes, and Health Care business. The Material division encompasses fibers & textiles, petrochemicals, performance polymers, performance materials, consumables, battery separators, and electronic devices. The Homes division provides housing and construction materials to the Japanese market. The Health Care division includes pharmaceuticals, medical devices, and acute critical care devices and systems. With approximately 35,000 employees around the world, the Asahi Kasei Group serves customers in more than 100 countries and recorded net sales of 15.3 billion Euro in fiscal year 2017.

Asahi Kasei is "Creating for Tomorrow" with all operations sharing a common mission of contributing to life and living for people around the world. For more information, visit [www.asahi-kasei.co.jp/asahi/en/](http://www.asahi-kasei.co.jp/asahi/en/) and [www.automotive-asahi-kasei.eu](http://www.automotive-asahi-kasei.eu).

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