

Hipore™ Wet-Process Lithium-Ion Battery Separator



Electrification

Application Areas

- Automotive and electronics (lithium-ion rechargeable batteries and primary lithium batteries)

Solution / Innovation for the Industry

- Ceramic Coated Separator (CCS)
- High thermal stability
- Oxidation resistance
- High strength
- Low shutdown (SD) temperature



Hipore™ separator membrane

Hipore™ is a high-performance microporous polyolefin flat membrane. With its wide range of thicknesses and highly uniform and microscopic pores, it is widely used as a separator in lithium-ion batteries.

The wet-process separator Hipore™ is used in automotive lithium-ion batteries, but also for consumer electronics, such as smartphones or portable music players. Its high porosity enables an outstanding liquid holding capacity, while its high puncture strength contributes to an enhanced safety and reliability.

Asahi Kasei is the world's biggest manufacturer and supplier of lithium-ion battery separators.

Key Properties

- Made of polyolefin, no harmful gases when incinerated
- Wide range of thicknesses
- Excellent uniformity of membrane thickness
- Uniform submicron pores
- High porosity
- High puncture strength