

Polyolefin microporous film
UPORE®



UPORE® is an essential material for primary and secondary lithium-ion batteries. It has a uniform microporous structure, developed using UBE's proprietary technology, and comes in either single or multi-layer membranes.


Features

1. Delivers superior solvent and chemical resistance thanks to the use of polyolefin as a raw material.
2. Manufactured using a dry process (lamellar crystal stretching method) that does not use solvents or inorganic fillers.
3. Comes in polypropylene or polyethylene mono-layer products, as well as multi-layer products that combine both these materials.
4. The use of polypropylene and polyethylene layers delivers low-temperature shutdown and high-temperature heat resistance.
5. No Traverse Direction shrinkage because a uniaxial stretching method is used.
6. Environmentally-friendly and contaminant-free because a dry manufacturing method is used.
7. Membrane thickness and permeability can be modified as required by customers.

Uses

- Separators for primary and secondary lithium-ion batteries
- Microfiltration filters
- Other uses

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