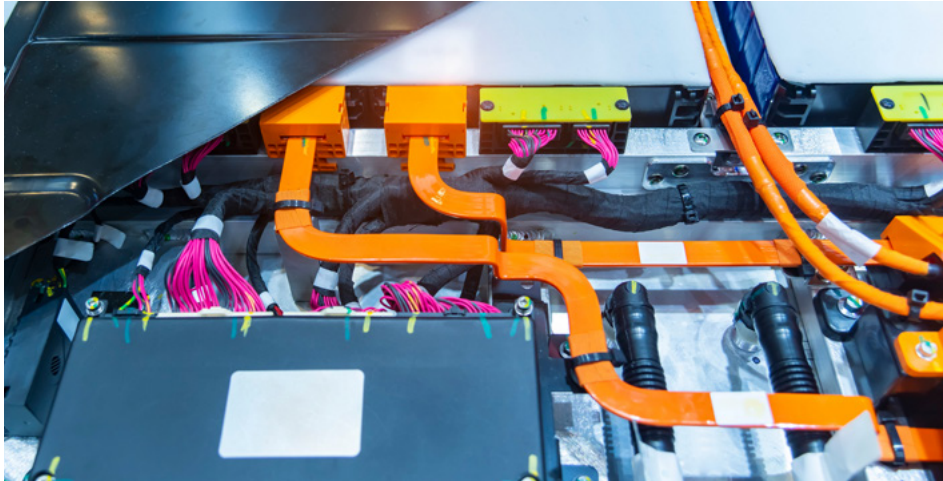
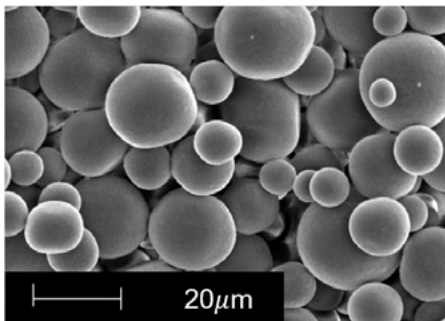


Microthene F

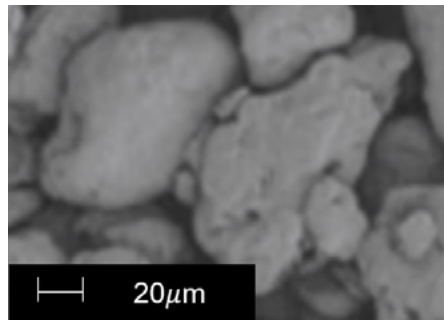
Superior binding for precision battery internals



In high-performance battery systems, every detail matters. *Microthene F* powders from LYB are engineered through a proprietary chemistry process to deliver ultra-fine, perfectly spherical particles, ideal for advanced binding applications in electrode design.



Microthene F under the microscope



An alternative powder

Resin properties

Grade	Type	Particle size (µm)	Melt index	Density (g/cm ³)
FN 501	LDPE	20 micron	22	0.915
FN 510	LDPE	20 micron	5.2	0.923
FN 519	LDPE	20 micron (flow enhanced)	5.2	0.923
FE 532	EVA (9% VA)	20 micron	10	0.926
FA 700	HDPE	20 micron	10	0.952
FA 709	HDPE	20 micron (flow enhanced)	10	0.952

Grades are available in low-density polyethylene (LDPE), high-density polyethylene (HDPE) and ethylene vinyl acetate (EVA).

Contact your LYB representative to learn more.

Product benefits

- **Uniform dispersion:** Ensures consistent binding of active materials across the electrode
- **Optimized ion flow:** Reduces resistance within the cell for improved conductivity
- **Higher energy density:** Supports tight packing and efficient charge transfer
- **Extended cycle life:** Promotes structural stability and long-term performance

Microthene F enhances formulations in:

- Lithium-ion and solid-state batteries
- Energy storage systems (ESS)
- Electric vehicle (EV) battery modules



About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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