AsahiKASEI

SunForce™ BE
mPPE-Particle Foam with Unique UL94 V-0 Flame Retardancy

Lightweight Electrification Efficiency

Application Areas

- Automotive industry (car body parts, electrical components, battery unit cases and structural parts for lithium-ion battery applications)
- Public transportation (airplane components, train components, railway infrastructure, electrical parts, seat parts)
- Other industries (medical parts, electric tools, fuel cells)

Solution / Innovation for the Industry

- First-of-its-kind material certified with UL94 V-0
- Assembly time reduction
- Lower production costs
- Complex and space-saving product design
- Processable on standard particle foam equipment

Complex and space-saving product design

SunForce™ BE is a foam material combining the characteristics of modified polyphenylene ether (m-PPE) resin and foam beads. Certified with UL 94 V-0 (Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances) flammability by the safety certification organisation Underwriters Laboratories, SunForce™ contributes to an overall product safety.

Consisting of small-sized beads, SunForce™ BE features high moldability which contributes to assembly time reduction and lower production costs. It also allows the molding of complex structures while maintaining strength and rigidity. Due to its thin-wall molding ability SunForce™ BE contributes to compact and space-saving product design.

Key Properties

- Particle foam with unique flame retardancy (UL 94 V-0)
- High thermal stability
- High precision
- Excellent designability and moldability
- Improved heat insulation
- High mechanical strength

Creating for Tomorrow

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