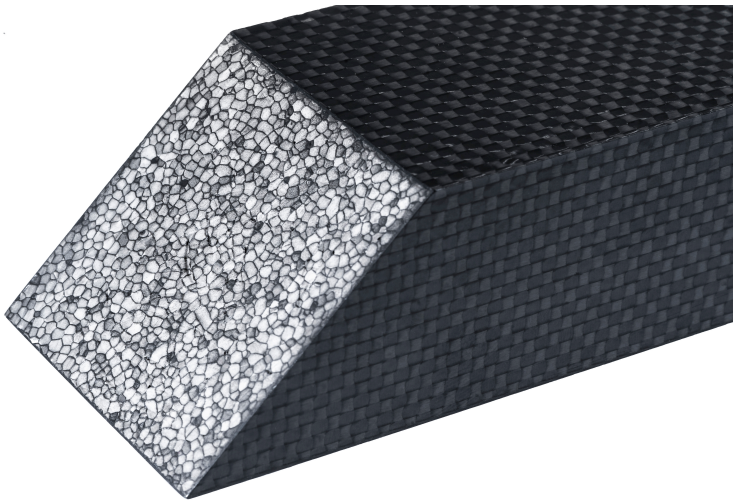
AsahiKASEI

SunForce™ BH
mPPE-Particle Foam For Composite Core Applications



Lightweight Electrification Efficiency

Application Areas

- Automotive industry (exterior and interior parts, structural battery parts)
- Public transportation (airplane components, train components, railway infrastructure, electrical parts, seat parts)
- Other industries (E-wave applications)

Solution / Innovation for the Industry

- Superior material for composite core applications
- Allows for free combination with other surface materials, such as metal, fiber-reinforced plastic, thermoplastics, foils and textiles
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SunForce™ can be combined with various materials

SunForce™ BH is a foam material combining the characteristics of modified polyphenylene ether (m-PPE) resin and foam beads. Its excellent designability and adhesive properties allow composite structures with various materials, such as resin or fiber materials, foils or metal adding different properties and functions to the target application.

Resin parts can be molded simultaneously with SunForce to increase the strength and overall aesthetics of the product. For certain resins that have good adhesion properties this composite application can also be achieved via heat sealing.

A composite of SunForce and metal mesh reduces electromagnetic interferences (EMI) where needed. This composite is 10 to 20% lighter than conventional EMI shielding plastics. The combination with metal also allows for enhanced heat transfer and dissipation.

Key Properties

- Excellent designability and moldability
- Superior adhesive properties
- High mechanical strength
- High heat deflection temperature

Creating for Tomorrow

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