

Beki-Shield®

Every. Gram. Counts.



High shielding effectiveness

Lightweight metal replacement

Prevents static buildup

Color customization

Protecting state-of-the-art technology against interference has never been more important. In the world of electric vehicles, even the smallest details make a difference.

Lowering Energy Consumption

Car manufacturers compete to add amazing features at a reduced vehicle weight. Because electric vehicles weigh more, it's important to lower energy consumption by lightening the load. As time goes on, we can expect to see even more incredible features packed into our electric vehicles. Think improved radar, lane departure, automatic braking, and beyond. Features such as these require low density

shielding solutions to protect against EMI and boost energy saving measures.

A vehicle's most popular features generate Electromagnetic Interference. Most of the time EMI causes minor annoyances, like unwanted noise. But at its worst, EMI creates a hazardous environment for the equipment and people it surrounds. As such, protecting against disruptive high frequencies requires effective EMI shielding solutions.



Advancing safety standards of the auto industry

Unrivalled customizations

Beki-Shield® is an ideal filler for incorporating EMI shielding properties into plastic compounds. These stainless-steel grains and continuous fibers mix directly into the polymer matrix for superior dispersion. Unlike other fillers,

Beki-Shield® has no impact on the final color or shape of the product. Whether you are using injection molding or compounding techniques, Beki-Shield offers unparalleled flexibility to a variety of applications.

Superior EMI Performance

- Beki-Shield® fibers offer high conductivity to achieve shielding levels between 30dB to 70dB. This effectively protects sensitive components, such as autonomous driving features, from interference.
- When plastics and rubbers contact other materials, like air and fuel, it can produce an electric charge on surfaces. This buildup produces static electricity. Beki-Shield® prevents and dissipates the buildup of static charge on common insulators .

Product specifics

- High conductivity (EMI/ESD): 30 to 70 dB
- Compatible with any color additive
- Light-weight design
- Available in continuous bundles or grains
- Suitable for compounding and injection molding processes

Discover the potential

When it comes to polymer composites, Beki-Shield® has a long-running proven track-record. Considering the weight and conductivity demands of the auto

industry, stainless steel makes sense. This range of fibers continues to prove its merits in EMI shielding and beyond time and time again.

[bekaert.com](https://www.bekaert.com)

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