

Our Innovation. *Your Edge.*

P-THERM[®] Electric-Vehicle Battery

An electric-vehicle battery (EVB) or traction battery is a battery used to power the propulsion of battery electric vehicles (BEVs). These batteries can be used in forklifts, electric golf carts, electric industrial machinery, electric motorcycles, and full-size electric vehicles. Whether you are building an EV, HEV or a PHEV we offer solutions to all of your needs.

Applications

- Cars and Trucks
- High Speed Rails
- Trams and Trolleybuses
- Scooters and Motorcycles
- Locomotives
- Aircraft
- Submarines
- Seacrafts
- Forklifts and other industrial machinery
- Spacecraft

Attributes

- No tailpipe emissions (BEV)
- Very quiet
- Quick
- Cheaper to operate
- Home recharging capability
- Inexpensive to purchase
- Low maintenance
- Very safe
- Environmentally friendly

Polymer Science Advantages

- Lower minimum order quantity
- Customization of width to minimize waste
- Standard and customized construction available
- Short lead times
- Excellent in-house and field technical support
- Eco-friendly facility



Custom Solutions...

Our design team works quickly to provide the solutions you need, allowing your project to expeditiously move from conception to production. Our diverse team of engineers and technical staff, along with our state-of-the-art equipment provide the capabilities to develop a quality product consistent with your application requirements.



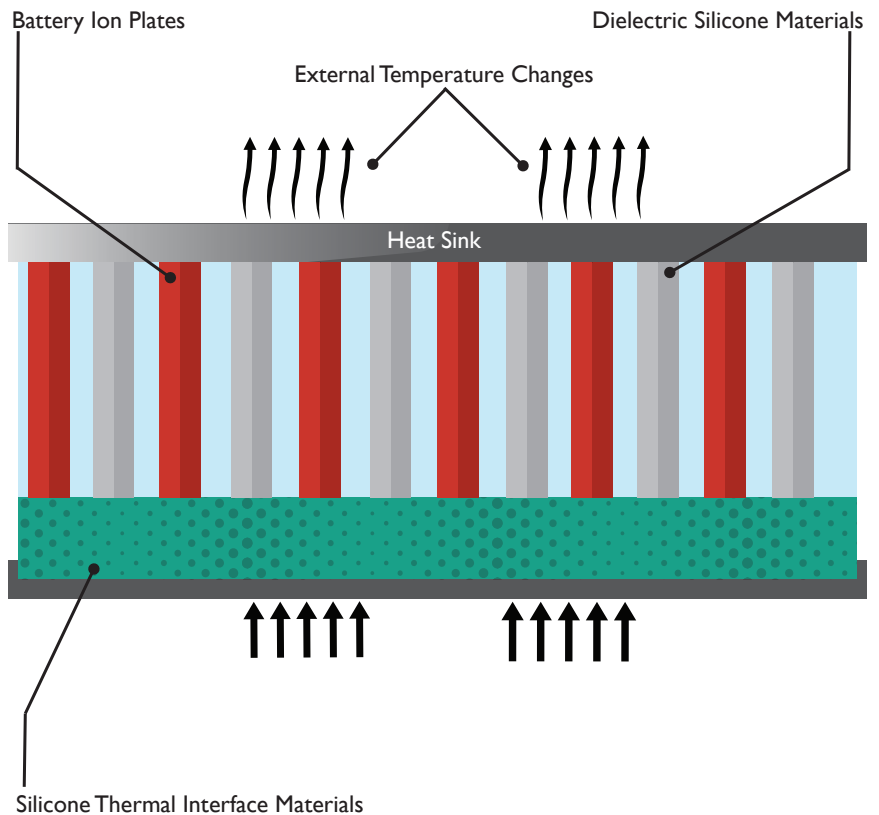
Polymer Science, Inc. offers a multitude of thermal gap fillers, as well as, dielectric pads for all of your Electric-Vehicle Battery needs. We are able to supply P-THERM® Gap Filler Pad materials on rolls, providing maximum material yield with silicone & non-silicone options available. Our P-THERM® ECIs offer good dielectric and thermally conductive properties without the worry of flow from wax-based products or mess associated with thermal grease. The natural tack of the materials mitigate movement during assembly.

Dielectric Pads

- High dielectric breakdown strength
- Thermally conductive
- High temperature resistance
- Good flexibility
- RoHS and HF compliant

Thermal Gap Fillers

- Thermal Conductivities: 1-5 W/m K
- Thickness Range: 0.10 – 5mm
- Durometer Range(Shore 00): 5 – 80
- Various colors available, including Black
- All Gap Filler Pad Products are rated UL V-0
- RoHS and HF Compliant
- Good surface wetting
- Conformable



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