

Thermally conductive materials for electric and hybrid vehicle batteries



Thermally conductive adhesives may become a key

technology for boosting the mass production of electric and hybrid vehicles and batteries. That's the view of our partner [Polytec PT](#), manufacturer of specialist adhesives which we recommend for many automotive (and other) electronic applications.

The ability to ensure a secure and durable battery system may demand robust fixing, vibration damping and heat dissipation from the cell to the surrounding area to guarantee efficient, reliable and long-time operation. Some newly developed products, featuring high thermal conductivities towards 2 W/mK and more, make adhesive bonding an increasingly attractive alternative to welding, soldering and mechanical joining. They offer high levels of structural strength, vibration resistance, dielectric strength and chemical resistance.

Good thermal management improves durability of the end product and hence positively affects its energy efficiency and eco-friendliness.

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