

Press information

Kyocera Brings High-Temperature, High-Thermal-Conductivity Epoxy Molding Compound to the European Market

The innovative molding compound stands out on account of its unrivaled 6W/mK and its high flowability. It can be applied not only to power modules, but also to BGA packages with long Cu wires.

Kyoto, Japan / Neuss, Germany April 14, 2016 – The Kyocera Corporation has recently developed a high-thermal conductivity Epoxy Molding Compound with a thermal conductivity of 6W/mK. This stands for a significant increase of the conventional thermal conductivity of 0.9-3W/mK and thus enhances the protection of semiconductor components from light, temperature, humidity, dust and physical shock.

In general, there are two approaches to reduce the thermal resistance of the semiconductor packages: Either a heat sink or a radiation fin (sometimes both are used in combination) can be applied. The alternative would be to use a molding compound with a high thermal conductivity. In case of the latter approach, the molding compound is required to have the appropriate mold shrinkage, a high adhesion strength and an excellent flowability in addition to the high thermal conductivity.

The new product has achieved an extremely high thermal conductivity by a higher alumina filler loading while excellent flowability is still maintained. Transfer moldings as well as compression moldings are available.

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By using our high thermal conductivity molding compound, the thermal dispersion of packages becomes higher. Thus, it is possible to eliminate the heatsink and also easier to design the package structure.

Kyocera is actively engaged in the development of environmentally friendly products and strives to reduce the use of environmentally harmful materials and processes as much as possible in the industries it supports.

For more information about Kyocera: www.kyocera.eu

About Kyocera

Headquartered in Kyoto, Japan, Kyocera Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry. The strategically important divisions in the Kyocera Group, which is comprised of 226 subsidiaries (as of March 31, 2015), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the oldest producers of solar energy systems worldwide, with more than 40 years of experience in the industry.

The company is ranked #552 on Forbes magazine's 2015 "Global 2000" listing of the world's largest publicly traded companies.

With a global workforce of over 68,000 employees, Kyocera posted net sales of approximately €11.74 billion in fiscal year 2014/2015. The products marketed by the company in Europe include printers, digital copying systems, microelectronic components, fine ceramic products and complete solar power systems. The Kyocera Group has two independent companies in the Federal Republic of Germany: Kyocera Fineceramics GmbH in Neuss and Esslingen and Kyocera Document Solutions in Meerbusch.

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by Kyocera founder Dr. Kazuo Inamori — to individuals and groups worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (converted at approximately €360,000 per prize category).

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