

Press Release

KRAIBURG TPE adds functionality and design to vehicle navigation devices

Kuala Lumpur, June 2023

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KRAIBURG TPE adds functionality and design to vehicle navigation devices

KRAIBURG TPE offers the THERMOLAST® K AD1/AP series of compounds for vehicle navigation applications.

Vehicle navigation systems are electronic devices that combine complex components such as sensors, software, multimedia capabilities, and connectivity features. Together with Global Positioning System (GPS) technology to detect the vehicle's precise location, these gadgets deliver accurate and real-time navigation information to motorists - making their journeys more enjoyable, stress-free, faster, and safer.

Advanced materials such as thermoplastics elastomers (TPEs) are a practical yet excellent choice for material in navigation device applications since they provide what product designers and manufacturers demand in terms of durability, flexibility, and functional designs.

TPEs provide durability against wear and tear, resistance to chemicals and weathering, protection against shock, vibrations, potential impacts, and interferences. As well, TPEs add the lightweight feature and are capable of withstanding the demands of a vehicle's environment.

The THERMOLAST® K series from KRAIBURG TPE, a global TPE manufacturer of thermoplastic elastomer products and custom-engineered TPE solutions for an extensive variety of consumer product applications, has several features that are ideal for navigation device applications like casings, buttons, grips, seals and shock absorbers.

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TPEs that create seamless aesthetics

Navigation gadgets are designed to blend seamlessly with the interior of the vehicle. KRAIBURG TPE's THERMOLAST® K AD1/AP series of compounds can suit the vehicle's design requirements, resulting in an aesthetically pleasant look.

As well, the TPE series adheres well to polar thermoplastics such as ABS, PC, and PC/ABS, allowing for greater product design flexibility. The compounds can be over-molded to change the surface feel, improve aesthetics, and provide vibration dampening.

Furthermore, the compounds can be easily processed through multi-component injection molding.

Soft-touch, anti-slip features

The flexibility and soft touch surface of KRAIBURG TPE's THERMOLAST® K AD1/AP series of compounds are essential aspects of an ergonomic design. This makes navigation gadgets more user-friendly.

A smooth surface also facilitates easy maintenance and cleaning of dust, prints, stains, and scratches.

Furthermore, the excellent grip and anti-slip features of this series of compounds ensure a tight grasp on the devices or when mounted in a car.

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UV-resistance, low odor; flammability compliant

KRAIBURG TPE's THERMOLAST® K AD1/AP series is UV-resistant, ensuring color stability and general functionality over a period of time.

The compounds also feature regulated emissions and odor qualities, reducing undesirable odors when navigation devices are used in confined spaces.

Navigation devices, like other electrical equipment, must meet certain safety standards in order to reduce the possibility of fire hazards. Thus, the THERMOLAST® K AD1/AP series is UL/HB listed, which is critical in electronic equipment due to safety considerations to ensure compliance with flammability rules and standards.

Additionally, it complies with REACH SHVC, and RoHS requirements, ensuring that it does not contain any hazardous chemicals or substances regulated by European laws.

Sustainable material solution

KRAIBURG TPE's THERMOLAST® K AD1/AP series allows for in-process recycling, simplifying the recycling of excess or leftover TPE materials.

Implementing in-process recycling of TPEs allows manufacturers to commit to sustainable techniques and resource conservation in the manufacturing of navigation devices.

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Sustainability successes of our TPEs

Besides navigation devices application, KRAIBURG TPE's recent sustainability innovations include a series of material solutions specially developed for automotive, consumer, consumer electronics, wearables and industry applications. Comprising up to 48% post-consumer recycled (PCR) and 50% post-industrial recycled (PIR) content, the material complies with multiple global standards such as FDA raw material compliance, RoHS and REACH SVHC requirements. KRAIBURG TPE also provides customers with product carbon footprint values.

Are you looking for a sustainable TPE solution? [Talk to us!](#)

Our experts are happy to answer any questions you have, as well as to offer the right solution for your application.



(Photo: © 2023 KRAIBURG TPE)

For high-resolution photography, please contact Bridget Ngang
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Information for members of the press:



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KRAIBURG TPE (www.kraiburg-tpe.com) is a global manufacturer of custom thermoplastic elastomers. KRAIBURG TPE was founded in 2001 as an independent business unit of the KRAIBURG Group and is now the industry's competence leader in the field of TPE compounds. The company's goal is to provide safe, reliable and sustainable products for customer applications. With more than 680 employees worldwide and production sites in Germany, the USA and Malaysia, the company offers a large product portfolio for applications in the automotive, industrial and consumer goods industries, as well as for the strictly regulated medical sector. The established THERMOLAST®, COPEC®, HIPEX® and For Tec E® product lines are processed by injection molding or extrusion and offer manufacturers numerous advantages not only in processing but also in product design. KRAIBURG TPE is characterized by its innovative strength, global customer orientation, customized product solutions and reliable service. The company is ISO 50001 certified at its headquarters in Germany and holds ISO 9001 and ISO 14001 certifications at all its sites worldwide.