

Press Release

KRAIBURG TPE's Sealing and Sensory Innovations in Virtual Reality Device

Kuala Lumpur, March 2024

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KRAIBURG TPE's Sealing and Sensory Innovations in Virtual Reality Device

Virtual reality (VR) has revolutionized multiple industries, with its immersive experiences making waves in education and training. Digital tools harnessing VR technology, like 3D learning environments, have enabled learners to gain a deeper understanding of theoretical concepts.

The adoption of thermoplastic elastomers in various **VR device applications**, <https://www.kraiburg-tpe.com/en/enhanced-ergonomics-consumer-electronics> including VR headset seals, controller grips, straps, face cover pads, and more, is enhancing comfort and functionality, contributing to an enhanced VR experience.

KRAIBURG TPE's **RC/AD1/AP series** <https://www.kraiburg-tpe.com/en/consumer-electronics-sustainable-innovation> offers manufacturers with a distinctive edge, enabling the creation of VR devices and accessories that prioritize user comfort and image quality.

The flexibility of the RC/AD1/AP series allows manufacturers to mold VR device components into various shapes, ensuring a comfortable, face-hugging seal for users. This seal is essential to maintain image quality by preventing interference from stray light. By combining rigid plastics with TPEs, manufacturers can achieve haptic contrast, making this series suitable for applications like head straps, controller buttons, and grips.

With a non-sticky and soft-touch surface, the RC/AD1/AP series provide a comfortable and pleasant experience to the user. Additionally, the series supports cost-efficient overmolding processes, allowing material placement directly onto the housing.

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Furthermore, **sustainability** <https://www.kraiburg-tpe.com/en/sustainability> and safety are at the forefront of the RC/AD1/AP series. It contains up to 50% post-industrial recycled content, aligning with environmental goals. To ensure user safety, the series has undergone rigorous testing, meeting UL 94HB, ISO10993-5 (Cytotoxicity), and ISO10993-23 (Skin Irritation) standards. It is also compliant with RoHS and REACH SVHC requirements.

The THERMOLAST® R RC/AD1/AP series offers pre-coloration options, including both black and natural colors, providing manufacturers with the versatility to cater to a diverse consumer base.

Sustainability successes of our TPEs

Besides VR device applications, 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.

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For high-resolution photography, please contact Bridget Ngang
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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 660 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.