

Press Release

KRAIBURG TPE Launches Sustainable TPE Materials for Trendy and Functional E-Bike Handles

Kuala Lumpur, September 2025

Page 1 of 4

KRAIBURG TPE Technology
(M) Sdn Bhd
Lot 1839 Jalan KPB 6
Kawasan Perindustrian Balakong
43300 Seri Kembangan, Selangor,
Malaysia

Phone +60 3 9545 6393

Info-asia@kraiburg-tpe.com
www.kraiburg-tpe.com

KRAIBURG TPE Launches Sustainable TPE Materials for Trendy and Functional E-Bike Handles

Lighter, energy-efficient, and innovative designs—these are the latest trends in electric bikes (e-bikes), expected to drive record growth in the micromobility market amid growing demand for sustainable and affordable transportation solutions. Technological advancements are making way for lighter e-bikes with more novel features, suited for both urban streets and off-road terrain.

Engineering materials such as thermoplastic elastomers (TPEs) are helping to reduce the weight of e-bike models—some weighing as little as half of the typical 60-pound designs. These materials also provide the mechanical strength and chemical resistance needed to enhance e-bike components for better performance and overall user satisfaction.

As e-bike categories diversify, handlebar designs have been modified to improve rider control and safety. KRAIBURG TPE, a global manufacturer of thermoplastic elastomers (TPE) and customized material solutions for various industries, offers the THERMOLAST® R RC/UV/AP series, a sustainable TPE solution developed specifically for [e-bike handles](#), providing durability, [comfortable grip](#), and eco-friendly advantages in handle applications.

Soft touch, reliable grip, lightweight build for better control

The THERMOLAST® R RC/UV/AP series offers a [soft-touch](#), non-sticky surface that keeps e-bike handles comfortable even with sweaty hands. These properties also enhance control and maneuverability while encouraging proper hand and wrist positioning for improved ergonomics.

Its broad hardness range, from 50 to 90 Shore A, allows for a customizable grip feel, from soft and cushioned to firm and responsive, without compromising safety or function. Its [lightweight](#), low-density formulation helps

Media Contact

Marlen Sittner
Head of Digital Marketing
Team Corporate Communications
Phone: +49 8638 9810-272
marlen.sittner@kraiburg-tpe.com

Asia Pacific
Bridget Ngang
Marketing Manager Asia Pacific
Phone: +603 9545 6301
bridget.ngang@kraiburg-tpe.com

Press Release

KRAIBURG TPE Launches Sustainable TPE Materials for Trendy and Functional E-Bike Handles

Kuala Lumpur, September 2025

Page 2 of 4

reduce overall e-bike weight, while a black finish ensures a consistent, modern appearance.

Sustainable TPEs for High-Performance Applications

The THERMOLAST® R RC/UV/AP series is fully recyclable and formulated with 15% to 40% [recycled content](#) to meet eco-friendly material requirements, particularly in the micromobility sector. Designed for e-bike applications, it offers UV, chemical, and weather resistance, along with reliable adhesion to polypropylene (PP) for efficient multi-component injection molding; and low-density substrates. Its temperature stability up to 90°C ensures performance even after prolonged outdoor use. The series' durability was validated through a two-year Florida exposure test, demonstrating its resilience in harsh outdoor environments.

Sustainability from the get-go

At KRAIBURG TPE, sustainability drives our innovation. Our portfolio includes bio-based TPEs and compounds with post-consumer (PCR) and post-industrial (PIR) recycled content. Selected TPEs are certified under GRS and ISCC PLUS. We also provide Product Carbon Footprint (PCF) data upon request to support sustainability decisions.

We proudly earned the EcoVadis Gold Medal in 2025 and are committed to the Science Based Targets initiative (SBTi), aligning our goals with global climate action.

From reducing emissions to increasing circularity, our [sustainable TPEs](#) deliver reliable performance and are available worldwide to support your applications while advancing your sustainability goals.

Press Release

KRAIBURG TPE Launches Sustainable TPE Materials for Trendy and Functional E-Bike Handles

Kuala Lumpur, September 2025

Page 3 of 4

Get in touch today to learn how KRAIBURG TPE can support your sustainability and product development journey.

***Disclaimer:** The applications mentioned are illustrative of material capabilities only. Final product suitability and regulatory compliance must be assessed and validated by the customer.*



© Copyright 2025 KRAIBURG TPE

(Photo: © 2025 KRAIBURG TPE)

For high-resolution photography, please contact Bridget Ngang
(bridget.ngang@kraiburg-tpe.com , +6 03 9545 6301).

Information for members of the press:



[download high-resolution images](#)



[latest news on KRAIBURG TPE](#)

Let's connect on Social Media:



Follow us on WeChat

Press Release

KRAIBURG TPE Launches Sustainable TPE Materials for Trendy and Functional E-Bike Handles

Kuala Lumpur, September 2025

Page 4 of 4



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 700 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.