

Press Release

Making better, more efficient homes with TPEs

Kuala Lumpur, May 2020

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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

Making better, more efficient homes with TPEs.

KRAIBURG TPE serves up home technology innovations with its THERMOLAST® K AD1 and AD/PA compounds, especially for high technology household product applications.

With increasing urbanization, time management has become essential to boost household productivity. With more people striking a balance between work and home, advanced, high technology appliances are becoming indispensable. These appliances, which come with features such as voice command, sensors, and connectivity and security functions, halve the time delegated to household chores.

Underpinning this growth is the heightened crusade for digital economy, which has led to the greater adoption of automated processes in sectors where economic activities require high productivity, such as manufacturing, agriculture, construction, and others.

As such, the use of equally advanced, quality materials, such as thermoplastic elastomers (TPEs), in the manufacture of high technology products, can ensure optimum benefits for users.

KRAIBURG TPE, a global TPE manufacturer of a wide range of thermoplastic elastomer products and custom solutions for multiple industries, offers high-quality custom engineered TPE compounds for high technology consumer products.

Elements for innovations

From sealing and soft-touch to design innovation and versatile colorization, KRAIBURG TPE's compounds can meet the functionality and performance required for household technology products. Furthermore, TPE materials can match the OEM specifications for design, aesthetics, weight requirements, and UL safety standards.

Media Contact

Simone Hammerl
Corporate Communications Manager
Phone: +49 8638 9810-568
simone.hammerl@kraiburg-tpe.com

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

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The TPE compounds are targeted at an array of household high technology products including automated voice-command enabled lawn mowers, robotic vacuum cleaners, robots for laundry folding and pool cleaning; wireless LED lighting and speakers; sensor-enabled door and window security devices, automated watering systems for gardens, and more.

Setting the standard for versatility

KRAIBURG TPE offers the THERMOLAST® K AD1 and AD/PA compounds, which come in natural and black colors for easy for colorization, at the same time, allowing for flexibility in a broad range of color designs.

The AD1 series has good adhesion properties with polar thermoplastics such as ABS, PC and PC/ABS. These compounds also have optimized flow properties, allow for soft-touch surfaces, are UV resistant, and can be demolded. The series can be process through injection molding and extrusion.

THERMOLAST® K AD1 Series

Compound Name	Hardness	Color	Adhesion
TCxMSB	30-40 Shore A	Natural	PC, ABS & PC/ABS
TCxMSZ	30-40 Shore A	Black	
TPxMLB	50-80 Shore A	Natural	
TPxMLZ	50-80 Shore A	Black	

Material Advantages

- UL 94 HB
- VDA 270 B3 - Odor
- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Insert molding possible
- Soft touch surface
- Controlled level of emission and odor, suitable for automotive interior
- Colorable
- Soft, non-sticky haptic

All values published in this data sheet are rounded average values.

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Additional benefits of the AD1 series include controlled emissions and odor, which provide the edge to target possible applications such as sealing for portable vacuums and window cleaning robots; gasket filters, grommets, thumb wheel of the lawn robot; and more.

Meanwhile, the AD/PA series, suitable for application in functional and design elements is essential free of halogens (according to IEC 61249-2-21), which is required by a large segment of the market. This series has good adhesion with PA as well as good processability and colorability.

THERMOLAST® K AD/PA Series

Compound Name	Hardness	Color	Adhesion
TPxPAN	20-80 Shore A	Natural	PA
TPxPAZ	20-80 Shore A	Black	

Material Advantages

- UL 94 HB
- Adhesion to PA6 and PA6.6, up to 50% glass fiber
- Adhesion to PA12
- Soft touch surface
- Demolding
- Optimized flow properties
- Halogen content (chlorine + bromine) < 900 ppm
- Dry haptics
- Colorable

All values published in this data sheet are rounded average values.

Possible applications are buttons, cover bodies and grip brushes of robots for swimming pools, window cleaning brushes, filter bags of vacuum cleaners, and more.

Both the THERMOLAST® K AD1 and AD/PA series of compounds conform to international criteria for safety including the flammability UL 94HB standards.

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Customer satisfaction, anytime, anywhere

At KRAIBURG TPE, we go the extra mile in our dedication to quality, selection, and support. You can choose from a unique range of products that thoroughly cover your requirements. Our dedicated customer service accompanies our offer of high-quality and custom-engineered products. Our team of specialists will assist you in any project phase with their comprehensive expertise and creativity. Our offices worldwide will cater your needs. Complete customer satisfaction with the full range of expertise and services is assured at KRAIBURG TPE.



(Photo: © 2020 KRAIBURG TPE)

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

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About KRAIBURG TPE

KRAIBURG TPE (www.kraiburg-tpe.com) is a global manufacturer of thermoplastic elastomers. From its beginning in 2001 as a subsidiary of the historical KRAIBURG Group founded in 1947, KRAIBURG TPE has pioneered in TPE compounds, today being the competence leader in this industry. With production sites in Germany, the U.S., and Malaysia, the company offers a broad range of compounds for applications in the automotive, industrial, consumer, and strictly regulated medical sectors. The established THERMOLAST®, COPEC®, HIPEX®, and For Tec E® product lines are processed by injection molding or extrusion and provide numerous processing and product design advantages to manufacturers. KRAIBURG TPE features innovative capabilities as well as true global customer orientation, customized product solutions and reliable service. The company is certified to ISO 50001 at its headquarters in Germany and holds ISO 9001 and ISO 14001 certifications at all global sites. In 2019, KRAIBURG TPE, with 645 employees worldwide, generated sales of 190 million euro.