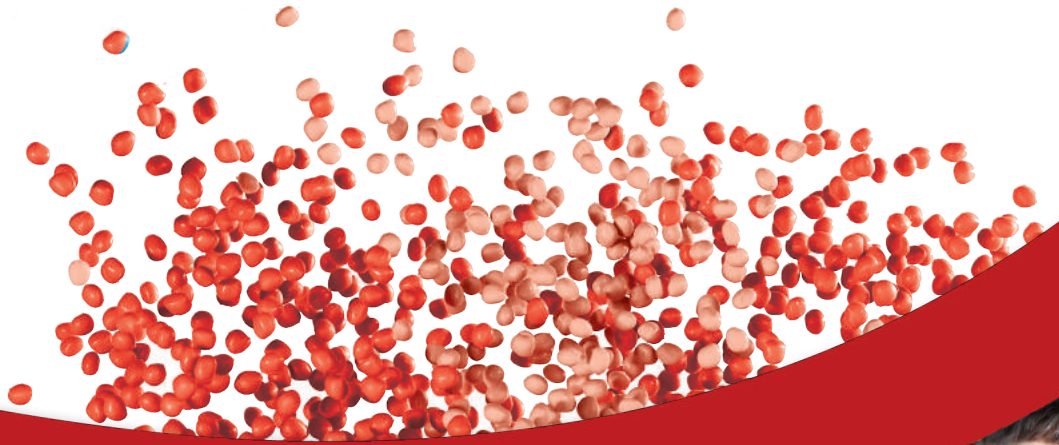


AUTOMOTIVE



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TPE: ENDLESS APPLICATION POSSIBILITIES

To stay competitive in business, manufacturers and business owners must use technology advances to help them stay ahead. In recent years, the use of thermoplastic elastomers (TPEs) has seen significant increases, helping businesses explore endless product application possibilities, innovate and remain competitive.

Thermoplastic elastomers (TPEs) are as elastic as rubber and as processable as plastics. That's why today's product developers and designers choose to work with TPEs because of its extraordinary mechanical properties with high degree of transparency and colorability.

Whether for automotive, consumer and personal care, medical, industry and more – you will be able to add value to your products through our diverse and customizable line of TPE compounds. At KRAIBURG TPE, we offer you endless application possibilities with the functionality, flexibility and superiority of premium quality TPEs.

DRIVING AUTOMOTIVE INNOVATION

KRAIBURG TPE drives automotive innovation by developing special TPE compounds that offer many advantages to vehicle manufacturers.

For exterior automotive applications, our TPEs boast of high performance, durability and weatherability.

For interior applications, our colorable, soft touch and velvety TPEs enhance interior aesthetics and resist intense heat, scratches, and UV rays. Automotive sealing performance is further strengthened with our sealing systems, featuring good surface appearance and elasticity, chemical, water and vibration resistance, and excellent UV stability.

Specially developed TPE compounds are also at work under the hood to resist extreme heat, flame, abrasion, oil and grease, ensuring the vehicle's performance is never compromised. We provide TPEs that meet all relevant requirements, including Kalahari and Arizona test certifications.









THERMOLAST® K

Series AD1

The AD1 Series is your material solution for applications with excellent adhesion to polar thermoplastics such as ABS, PC and PC/ABS. The compounds are available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TCxMLB	50-77 Shore A	Natural	PC ABS PC/ABS
• TCxMLZ	49-77 Shore A	Black	
• TCxMSB	31-39 Shore A	Natural	
• TCxMSZ	30-40 Shore A	Black	
Typical Applications			
<ul style="list-style-type: none">• Bumpers• Door seal• Function and design elements• Grommets• Handles• Seals• Thumb wheels			
Material Advantages			
<ul style="list-style-type: none">• Easy colorability• Excellent adhesion• Excellent processing behavior• Insert molding possible• Pleasant surface feel (Soft touch)• Suitable for automotive interior• UL 94 HB listed• UV resistance			

THERMOLAST® K

Series AD1/CS

The AD1/CS Series is your material solution for applications with excellent adhesion to polar thermoplastics such as ABS, PC and PC/ABS as well as excellent compression set. The compounds are available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TPxVCN	47-75 Shore A	Natural	PC ABS PC/ABS
• TPxVCZ	50-80 Shore A	Black	
Typical Applications			
<ul style="list-style-type: none">• Fastenings• Grommets• Membranes• Seals			
Material Advantages			
<ul style="list-style-type: none">• Easy colorability• Excellent compression set• Insert molding possible• UL 94 HB listed			

Series

AD/EPDM/UV

The AD/EPDM/UV Series is your material solution for applications requiring UV resistance and adhesion to EPDM rubber. It is particularly appropriate for automotive exterior.

Compound Name	Hardness	Color	Adhesion
• TCxEAZ	70 Shore A	Black	EPDM
• TCxEFZ	70 Shore A	Black	
Typical Applications			
<ul style="list-style-type: none"> • Automotive Exterior • Corner Molding • Door sills • End caps • Glass Run Channel • Window encapsulations 			
Material Advantages			
<ul style="list-style-type: none"> • Adhesion to EPDM • Easy flowing • Easy processing • Excellent heat resistance up to 90 °C • Excellent UV- and weather resistance • For injection molding • Insert molding possible • Low Coefficient of Friction • Recyclable • Short cooling time 			

THERMOLAST® K

Series

AD/PA

The AD/PA Series is your material solution for applications with excellent adhesion to PA. The compounds are available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TCxPAN	23-80 Shore A	Natural	PA
• TCxPAZ	23-80 Shore A	Black	
Typical Applications			
<ul style="list-style-type: none"> • Cable clips • Function and design elements • Grommets • Handles • Seals • Thumb wheels 			
Material Advantages			
<ul style="list-style-type: none"> • Adhesion to PA 6 and PA 6.6 up to 50 % glass fiber • Easy colorability • Excellent adhesion • Excellent processing behavior • Insert molding possible • Pleasant surface feel (Soft touch) • UL 94 HB listed • Wide hardness range 23-80 Sh A • UV resistance 			

THERMOLAST® K

Series

AD/PA/CS

The AD/PA/CS Series is your material solution for applications with excellent adhesion to PA as well as outstanding compression set. The compounds are available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TCxPCN	39-77 Shore A	Natural	PA
• TCxPCZ	35-75 Shore A	Black	

Typical Applications

- Fastenings
- Grommets
- Membranes
- Seals

Material Advantages

- Easy colorability
- Excellent compression set
- Insert molding possible
- UL 94 HB listed

THERMOLAST® K

Series

AD/POM

The AD/POM Series is your material solution for applications with excellent adhesion to POM. The compounds are available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TCxHAA	47-77 Shore A	Natural	POM
• TCxHBA	59-70 Shore A	Natural	
• TCxHAZ	47-77 Shore A	Black	
• TCxHBZ	61-72 Shore A	Black	

Typical Applications

- Bumpers
- Function and design elements
- Grommets
- Handles
- Seals
- Thumb wheels

Material Advantages

- Easy colorability
- Excellent adhesion
- Excellent processing behavior
- Insert molding possible
- Patented system for TPS and POM
- Pleasant surface feel (Soft touch)
- Suitable for automotive interior
- UV resistance

Series
GP/FG

The GP/FG Series is your material solution for a variety of different applications. It is particularly appropriate for passenger compartments. The compounds are available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TCxGPN	21-89 Shore A 32 Shore D	Natural	PP
• TCxGPZ	23-89 Shore A 33 Shore D	Black	
Typical Applications			
<ul style="list-style-type: none"> • Car mats • Function and design elements • Handles • Seals • Soft touch surface (thumb wheels, push buttons, switches) 			
Material Advantages			
<ul style="list-style-type: none"> • Adhesion to PP • Easy colorability • Excellent mechanical properties • Excellent processing behavior • Fulfills automotive interior specifications • Pleasant surface feel (Soft touch) • UL 94 HB listed 			

THERMOLAST® K

Series
SCR

The SCR Series is your material solution for applications requiring a high degree of scratch resistance. The series is characterized among other things by a pleasant feel.

Compound Name	Hardness	Color	Adhesion
• TCxSCE	27-77 Shore A	Natural	PP
Typical Applications			
<ul style="list-style-type: none"> • Car mats • Function and design elements • Handles • Soft touch surface (thumb wheels, push buttons, switches) 			
Material Advantages			
<ul style="list-style-type: none"> • Adhesion to PP • Easy colorability • Excellent abrasion resistance • Excellent mechanical properties • Excellent scratch resistance • Pleasant surface feel (Soft touch) 			

THERMOLAST® K

Series
UV/AP

The UV/AP Series is your material solution for applications requiring high UV resistance. It is particularly suited for automotive exterior components. The compounds comply with GM standard GMW 16233.

Compound Name	Hardness	Color	Adhesion
▪ TCxUVZ	50-70 Shore A	Black	PP
Typical Applications			
<ul style="list-style-type: none">• Roof rims• Water deflectors• Window encapsulations			
Material Advantages			
<ul style="list-style-type: none">• Adhesion to PP• Easy flowing• Excellent mechanical properties• Excellent UV and weather resistance			

THERMOLAST® K

Series
UV/FG

The UV/FG Series is your material solution for applications requiring high UV resistance. It is particularly appropriate for automotive exterior and interior components.

Compound Name	Hardness	Color	Adhesion
• TCxLEZ	33-89 Shore A 35 Shore D	Black	PP
Typical Applications			
<ul style="list-style-type: none">• Cowl gaskets• Roof rims• Soft touch for grips, switches and mats• Water deflectors• Window encapsulations			
Material Advantages			
<ul style="list-style-type: none">• Easy flowing• Excellent mechanical properties• Fulfills automotive interior specifications• Perfect adhesion to PP• Perfect surface finish• Tested according to PV3930 for outdoor use			

THERMOLAST® K

Series UV/LD/b

The UV/LD/b Series is your material solution for applications requiring high UV resistance. It is particularly appropriate for automotive exterior.

Compound Name	Hardness	Color	Adhesion
• TPxLDZ	32-82 Shore A 35 Shore D	Black	PP
Typical Applications			
<ul style="list-style-type: none">• Cowl gaskets• Roof rims• Water deflectors• Window encapsulations			
Material Advantages			
<ul style="list-style-type: none">• Excellent heat resistance• Excellent mechanical properties• Perfect adhesion to PP• Perfect surface finish• Tested according PV3930 for outdoor use			

THERMOLAST® A

Series UV/AD1

The UV/AD1 Series is your material solution for applications requiring high UV resistance and adhesion to polar thermoplastics such as PC, ABS, PC/ABS. It is particularly appropriate for automotive exterior components.

Compound Name	Hardness	Color	Adhesion
• TAxAOZ	38-80 Shore A	Black	PC ABS PC/ABS
Typical Applications			
<ul style="list-style-type: none">• Handles• Seals for windows and doors			
Material Advantages			
<ul style="list-style-type: none">• Easy flowing• Excellent adhesion• Perfect surface finish• UV resistance• Excellent resistance against oil and grease			

Series
LTP

The LTP Series is your material solution for sealings requiring high temperature resistance. The compounds are characterized by an excellent adhesion to PP.

Compound Name	Hardness	Color	Adhesion
• TVxLVN	50-89 Shore A	Natural	PP
• TVxLVZ	50-89 Shore A	Black	
Typical Applications			
<ul style="list-style-type: none"> • Fastenings • Grommets • Seals 			
Material Advantages			
<ul style="list-style-type: none"> • Adhesion to PP • Excellent heat resistance up to 140°C • Excellent hysteresis behaviour • Excellent mechanical properties • Exceptional long-term compression set 			

THERMOLAST® V

Series
LTP /PA

The LTP/PA Series is your material solution for sealings requiring high temperature resistance. The compounds are characterized by an excellent adhesion to PA.

Compound Name	Hardness	Color	Adhesion
• TVxVAZ	53-80 Shore A	Black	PA
• TVxVAN	60-80 Shore A	Natural	
Typical Applications			
<ul style="list-style-type: none"> • Fastenings • Grommets • Seals 			
Material Advantages			
<ul style="list-style-type: none"> • Adhesion to PA6 and PA6.6 up to 50 % glass fiber • Excellent heat stability • Exceptional long-term compression set • UL 94 HB listed 			

Series
UV/HF

The UV/HF Series is your material solution for applications requiring high UV resistance and high flow ability. It is particularly appropriate for automotive exterior components.

Compound Name	Hardness	Color	Adhesion
• TCxWEZ	52-72 Shore A	Black	PP
Typical Applications			
<ul style="list-style-type: none"> • Cowls gaskets • Roof rims • Water deflectors • Window encapsulations 			
Material Advantages			
<ul style="list-style-type: none"> • Easy flowing • Excellent processing behavior • Perfect adhesion to PP • Tested according PV3930 for outdoor use 			

THERMOLAST® K

Series
UV/HF/SF

The UV/HF/SF Series is your material solution for applications requiring high UV resistance, perfect surface finish and high flow ability. It is particularly appropriate for automotive exterior components.

Compound Name	Hardness	Color	Adhesion
• TCxHFZ	49-86 Shore A	Black	PP
Typical Applications			
<ul style="list-style-type: none"> • Cowls gaskets • Roof rims • Water deflectors • Window encapsulations 			
Material Advantages			
<ul style="list-style-type: none"> • Easy flowing • Excellent processing behavior • Perfect adhesion to PP • Perfect surface finish • Tested according PV3930 for outdoor use 			

For Tec E®

Series
AD/PAX/CR

The AD/PAX/CR Series is your material solution for two-component-seals in electronic applications and soft-touch grips and handles of machine tools. The material provides an excellent resistance to skin oils, sun cream, olive oil and acetone, accompanied by outstanding adhesion properties to semi-aromatic polyamides and polyarylamides such as PA 12, PA 6 and PA 6.6. The series is available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• OCxOAN	60-78 Shore A	Natural	PA
• OCxOAZ	60-79 Shore A	Black	
Typical Applications			
<ul style="list-style-type: none">• Connectors• Handles• Seals			
Material Advantages			
<ul style="list-style-type: none">• Easy colorability• Excellent adhesion to semi-aromatic Polyamides (PAX), Polyarylamides (PARA), Polyamides like PA 12, PA 6 and PA 6.6• Excellent mechanical properties• Resistance against skin oils, sunscreens, olive oil and acetone• UL 94 HB listed			

TECHNICAL INFO AT A CLICK

Get online support by downloading our detailed KRAIBURG TPE technical data sheet(s) with processing guides and safety data sheet(s) anywhere in the world.

Follow these easy steps to download KRAIBURG TPE detailed data sheet(s):

<p>STEP 1:</p>	<p>Visit www.kraiburg-tpe.com / Scan the QR code.</p>	
<p>STEP 2:</p>	<p>Click "PRODUCT DATABASE".</p>	
<p>STEP 3:</p>	<p>COMPOUND SEARCH appears. Select and click your "REGION"</p>	
<p>STEP 4:</p>	<p>BEGIN SEARCHING: (a-i) Search Text Manually</p>	<p>MATERIAL - SEARCH <input type="text"/></p> <p>SERIES - SEARCH <input type="text"/></p> <p>TEXT - SEARCH <input type="text"/></p> <p>SEARCH</p>
	<p>OR</p> <p>(a-ii) Guided Search</p>	<p>MARKET - SEARCH <input type="text"/></p> <p>TYPICAL APPLICATIONS <input type="text"/></p> <p>MATERIAL ADVANTAGES <input type="text"/></p> <p>SEARCH</p>
	<p>AND / OR</p> <p>(b) Scroll down for "SEARCH RESULTS". Click on the desired series name to download the desired data sheet(s) in PDF.</p>	 <p>SELECT & DOWNLOAD</p>

BRIGHTEN UP WITH COLORS

Set your products apart from the competition with KRAIBURG TPE customized color TPEs. Our TPE can be color compounded upon request, regardless of your application requirements, such as: special chemical, thermal resistance, different finishing and textures, or other exclusive properties. We will strive to fulfill your request in the most economic and optimal way possible, and assure a worldwide consistent color quality.

“ Comprehensive Solution!

Impress your customer and score with an appealing design and the perfect color. ”



BRING YOUR IDEAS TO LIFE

Every now and then, you may come across an idea that may help make your products requiring TPEs better and more commercially viable. Share your ideas with us and we'll help you add value at each critical stage of the product development process to help you save time, money and introduce a better product to the market quickly and successfully! From mold structure design idea, TPE specifications to customization - we'll help bring your ideas to life!

“ Got An Idea! ”



OUR STANDARDS OF EXCELLENCE

KRAIBURG TPE prides itself as a company that pursues quality, innovation and excellence at all levels. This quality management approach enables us to assure the quality requirements for both the applications and the customers – exceeding high standards of safety, quality and reliability. We will also continue to develop innovative products and continuously improve our performance, as all our employees are fully dedicated to the highest standards of:

QUALITY MANAGEMENT SYSTEM

complying with the requirements of standard
ISO 9001

ENVIRONMENTAL MANAGEMENT SYSTEM

complying with the requirements of standard
ISO 14001

ENERGY MANAGEMENT SYSTEM

complying with the requirements of standard
ISO 50001



CARING YOU & ME

The importance of environmental conservation is a topic we are actively conscious about. KRAIBURG TPE takes important measures to ensure that our thermoplastic elastomers (TPEs) can be recycled nearly up to 100%. This allows us to melt down the thermoplastic elastomers again and again - saving on material use and ultimately, preserving the environment.

We have also initiated a landmark "CARING YOU & ME" initiative around the Asia Pacific region to make a difference in our lives. Our theme adopts a caring approach towards environment conservation and preservation, and towards our employees' health and safety concerns (EHS). Our goal is to work towards better environment preservation, health and safety while simultaneously maintaining harmony with nature in all our global operation activities.





AUTOMOTIVE

Discover the infinite and exciting possibilities in exterior and interior automotive applications and under-the-hood functions. OEM standards-approved materials, excellent weathering, temperature and compression resistance, advanced adhesion technology, superior haptics and more!

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www.kraiburg-tpe.com

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