

INDUSTRY

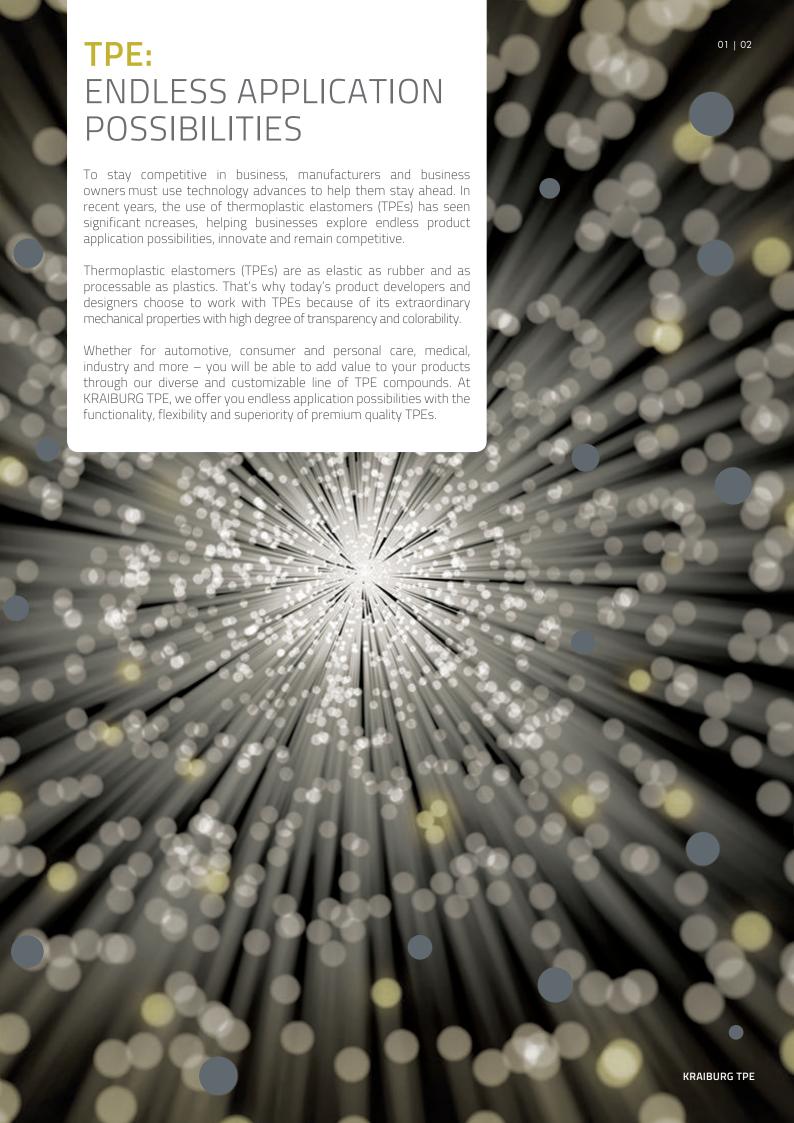


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KRAIBURG TPE empowers industry wide applications for the power tools, building, construction, agriculture and electronics industries. Our superior TPE compounds are engineered to be durable, shock and vibration absorbent, chemical and fluid resistant with superb weatherability for heavy-duty applications.

Our high performance TPEs also bring innovations to consumer electronic products, such as impact resistance to protect sensitive electronics, sweat and cosmetics oils resistance, and more. Our TPEs also provide excellent ergonomics, design capabilities and aesthetic value.















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
• TCxMLZ	49-77 Shore A	Black	PC/ABS
• TCxMSB	31-39 Shore A	Natural	
• TCxMSZ	30-40 Shore A	Black	

Typical Applications

- Door seal
- Function and design elements
- Grommets
- Handles (hand tools and power tools etc.)
- Seals
- Thumb wheels

Material Advantages

- · Easy colorability
- · Excellent adhesion
- Excellent processing behavior
- Insert molding possible
- · Pleasant surface feel (Soft touch)
- 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
• TPxVCZ	50-80 Shore A	Black	PC/ABS

Typical Applications

- Fastenings
- Grommets
- Membranes
- Seals

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

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

- Cable clips
- Function and design elements
- Grommets
- · Handles (hand tools and power tools etc.)
- Seals
- · Thumb wheels

Material Advantages

- 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

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

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

- Function and design elements
- Grommets
- Handles (hand tools and power tools etc.)
- 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)
- UV resistance

THERMOLAST® K

Series **DW**

The DW Series is your material solution for applications in contact with drinking water. The compounds are approved in accordance with all relevant European drinking water standards – DVGW, W270, KTW, WRAS, ACS.

Compound Name	Hardness	Color	Adhesion
• TFxWKF	53-86 Shore A	Natural	PP PE

Typical Applications

- · Seals, functional and design elements in sanitary sector
- Shower heads

- · Adhesion to PP, PE
- Easy colorability
- For injection molding and extrusion
- Smooth surface and repels dirt and lime deposit
- Thermoplastic alternative material to elastomers

Series **DW/CS**

The DW/CS Series is your material solution for applications in contact with drinking water as well as excellent compression set. The compounds are approved in accordance with all relevant European drinking water standards – DVGW, W270, KTW, WRAS, ACS.

Compound Name	Hardness	Color	Adhesion
• TFxWCS	58-87 Shore A	Natural	

Typical Applications

· Seals, functional and design elements in sanitary sector

Material Advantages

- Easy colorability
- For injection molding and extrusion
- · Smooth surface and repels dirt and lime deposit

THERMOLAST® K

Series **DW/H**

The DW/H Series is your material solution for hoses in contact with drinking water. The compounds are approved in accordance with all relevant European drinking water standards – , W270, KTW, WRAS, ACS.

Compound Name	Hardness	Color	Adhesion
• TFxWHA	55-85 Shore A	Translucent	PVC-P
• TFxWHB	60-80 Shore A	Translucent	

Typical Applications

- · Hoses for food application
- Hoses for household appliances
- Shower hoses

- · Alternative material to PVC-P
- Code of Federal Regulations, Title 21 (CFR 21) "FDA"
- Easy coloring (compounds in natural colors)
- · Easy to extrude
- Excellent kinking performance
- · Precolored with all approvals
- Recyclable
- Regulation (EU) No. 10/2011
- · Smooth surface and repels dirtand lime deposit
- · WRAS, W270, ACS and KTW approved

Series FR/AD1

The FR/AD1 Series is your material solution for applications requiring high flame retardance and providing excellent adhesion to polar thermoplastics such as ABS, PC.

Compound Name	Hardness	Color	Adhesion
• TCxMFN	60-80 Shore A	Natural	PC ABS

Typical Applications

- · Cable holders
- · Electric and electronic components
- Grommets
- · Seals for in-wall outlets
- · Seals for switch boxes

Material Advantages

- · Easy coloring (compounds in natural colors)
- Excellent adhesion
- Halogen free (reduction of toxic fire gases) acc. IEC 61249-2-21
- · Insert molding possible
- · Self-extinguishing, no dripping of flaming particles
- UL 94-V0 (3mm) listed

THERMOLAST® K

FR/AP

The FR/AP Series is your material solution for applications requiring high flame retardance. The compounds are halogen-free and available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TCxFLN	39-88 Shore A	Natural	
• TCxFLZ	39-88 Shore A	Black	

Typical Applications

- · Cable clips
- Cable holders
- · Electric and electronic components
- · Seals for switch boxes

- Easy colorability
- · Excellent mechanical properties
- · Halogen-free (reduction of toxic fire gases)
- Self-extinguishing, no dripping of flaming particles
- UL 94-V0 (3mm) listed

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

- · Function and design elements
- · Handles (tools, tool boxes, ski poles)
- Soft touch surface (thumb wheels, push buttons, switches)

Material Advantages

- · 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.

Compound Name	Hardness	Color	Adhesion
• TCxUVZ	50-70 Shore A	Black	PP

Typical Applications

- Roof rims
- · Water deflectors
- · Window encapsulations

- Adhesion to PP
- Easy flowing
- · Excellent mechanical properties
- · Excellent UV and weather resistance

Series
UV/LD/b

The UV/LD/b Series is your material solution for applications requiring high UV resistance.

Compound Name	Hardness	Color	Adhesion
• TPxLDZ	32-82 Shore A 35 Shore D	Black	PP

Typical Applications

- · Cowl gaskets
- Roof rims
- Water deflectors
- · Window encapsulations

Material Advantages

- Excellent heat resistance
- · Excellent mechanical properties
- · Perfect adhesion to PP
- · Perfect surface finish
- · Tested according PV3930 for outdoor use

THERMOLAST® K

Series

VS/AD/HM

The VS/AD/HM Series is your material solution for applications where a velvet surface, excellent adhesion to polar thermoplastics, excellent wear resistance as well as very good chemical resistance in particular against sebum are required.

Compound Name	Hardness	Color	Adhesion
• TCxCEN	61-71 Shore A	Natural	PC I ABS I
• TCxCEZ	62-72 Shore A	Black	PC/ABS I ASA I SAN I PA

Typical Applications

- · Cell phone cases
- Cosmetic packaging
- Headphones
- Remote controls
- Wearables

- Chlorine-Bromine test: (Cl+Br)< 900 ppm
- Easy coloring and excellent color-stability
- Easy processing
- · Excellent abrasion resistance
- Excellent adhesion to PA6 and PA12
- Excellent adhesion to PC, ABS, PC/ABS, ASA, SAN
- · Excellent mechanical properties
- Excellent scratch resistance
- · Smooth and silky surface
- Very good chemical resistance against sebum and sun screen

Series

GP/AP

The GP/AP Series is your material solution for technical applications with excellent adhesion to PP. The compounds are available in natural and black colors.

Compound Name	Hardness	Color	Adhesion
• TCxTPN	23-94 Shore A	Natural	PP
• TCxTPZ	23-94 Shore A	Black	

Typical Applications

- · Function and design elements
- Handles (tools, tool boxes, ski poles)
- · Soft touch for grips, switches and mats

Material Advantages

- · Adhesion to PP
- · Easy colorability
- · Easy flowing
- · Excellent mechanical properties
- · Good weathering resistance

THERMOLAST® K

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

- Function and design elements
- Handles (tools, tool boxes, ski poles)
- Seals
- · Soft touch surface (thumb wheels, push buttons, switches)

- · Adhesion to PP
- Easy colorability
- · Excellent mechanical properties
- · Excellent processing behavior
- Pleasant surface feel (Soft touch)
- UL 94 HB listed

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.

Compound Name	Hardness	Color	Adhesion
■ TAxAOZ	38-80 Shore A	Black	PC ABS PC/ABS

Typical Applications

- Handles (hand tools and power tools etc.)
- · Seals for windows and doors

Material Advantages

- · Easy flowing
- · Excellent adhesion
- Perfect surface finish
- UV resistance
- · Excellent resistance against oil and grease

THERMOLAST® V

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

- Fastenings
- Grommets
- Seals

- Adhesion to PP
- Excellent heat resistance up to 140 $^{\circ}\text{C}$
- Excellent hysteresis behaviour
- Excellent mechanical properties
- Exceptional long-term compression set

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

- Fastenings
- Grommets
- Seals

Material Advantages

- · Adhesion to PA6 and PA6.6 up to 50 % glass fiber
- Excellent heat stability
- · Exceptional long-term compression set
- UL 94 HB listed

COPEC®

VS/CR/AD1

The VS/CR/AD1 Series is your material solution for applications in the consumer electronics section. The series features an exceptionally silky and velvety surface, accompanied by an outstanding resistance to skin oil, suncream and olive oil. The compounds convince due to their excellent adhesion to technical thermoplastics suchas ABS, PC and PC/ABS.

Compound Name	Hardness	Color	Adhesion
• CCxFDN	67-73 Shore A	Natural	PC ABS PC/ABS

Typical Applications

- · Cable clips
- · Cable holders
- · Game consoles
- · Grip applications
- Grommets
- · Handles (hand tools and power tools etc.)
- Headphones
- Razors
- · Remote controls
- Seals
- Soft touch

- Easy coloring (compounds in natural colors)
- · Excellent adhesion
- · Excellent mechanical properties
- Excellent processing behavior
- · For injection molding
- Insert molding possible
- Perfect surface finish
- · Resistance against skin oils, sunscreens, olive oil and acetone
- · Smooth and silky surface
- · UL 94 HB listed

For Tec E®



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

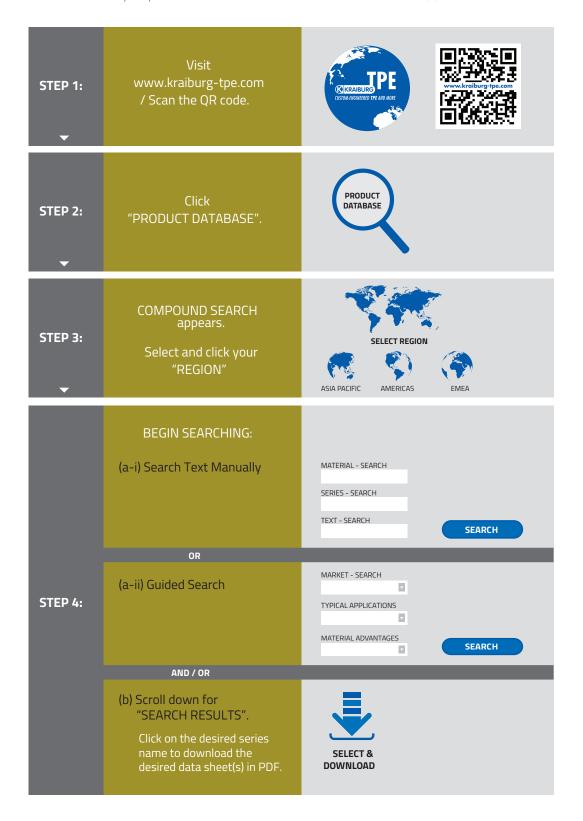
- Attenuators for electronic housings
- Connectors
- · Handles (Powertool)
- Seals
- Seals for computer and laptop screens
- Seals for housings

- · 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):



BRIGHTEN UPWITH COLORS

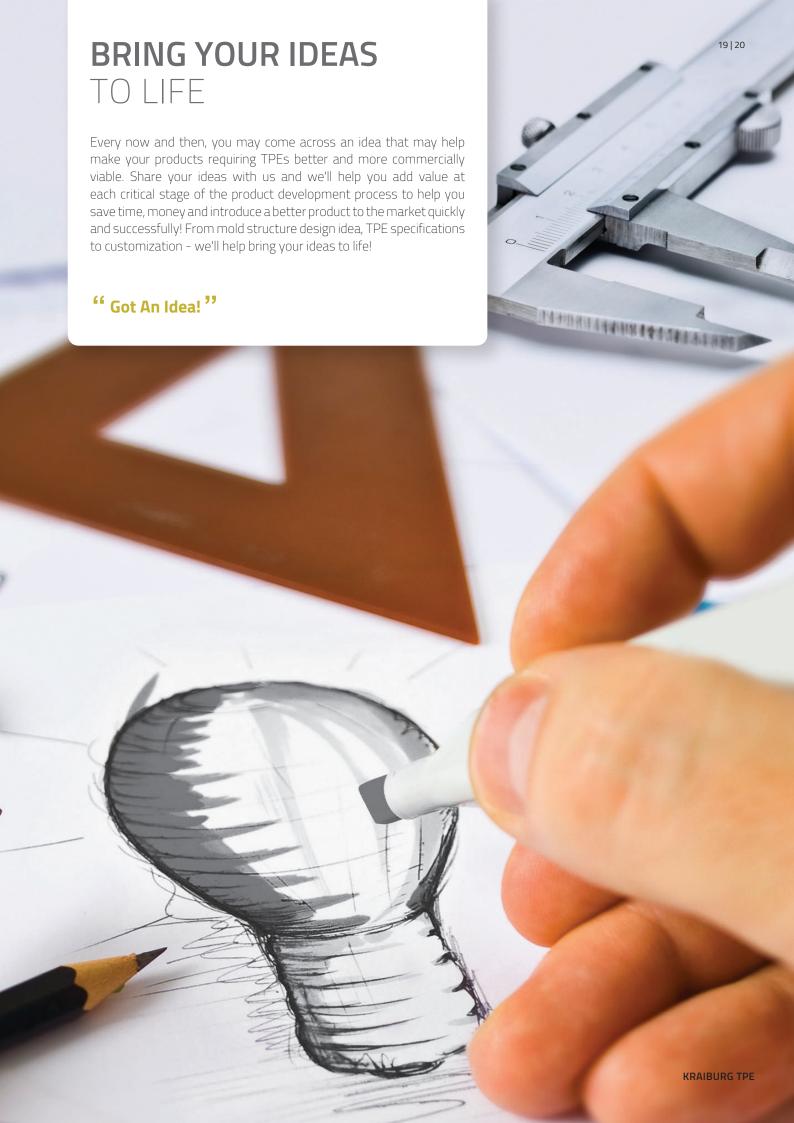
Set your products apart from the competition with KRAIBURG TPE customized color TPEs. Our TPE can be color compounded upon request, regardless of your application requirements, such as: special chemical, thermal resistance, different finishing and textures, or other exclusive properties. We will strive 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. ***







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.







INDUSTRY

Empower a wide scope of industry-wide applications with our superior adhesion technology, industry-approved materials, outstanding compression set, shock and vibration absorbent qualities, exceptional chemical and fluid resistance properties and more!



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