



AUTOMOTIVE



SOLUTIONS THAT MAKE
THE DIFFERENCE

OUR COMPANY

BENEFITS IN ALL SHAPES AND SIZES

Thermoplastic Elastomers (TPEs) are the materials used to make progress. Compounds from KRAIBURG TPE will open up all sorts of new opportunities in product development and processing making production efficient for you as well.

The solutions provided by KRAIBURG TPE will enable you to meet the highest requirements. Our company not only offers high-quality specially custom-engineered products, but also provides a unique level of comprehensive customer service.

The company's motto, "CUSTOM-ENGINEERED TPE AND MORE", is meant to be taken literally. Our goal is to identify the challenges you face with you and support you at all times anywhere in the world.





THE MARKET

PIONEERING APPLICATIONS

Some of our TPE compounds have now become indispensable in the automotive industry. The well-established portfolio series meet the highest requirements. In addition, the materials can be adjusted to meet customers' needs. For many years we have been collaborating with OEMs and suppliers on clearances for components and materials. This means: With KRAIBURG TPE, you are not just getting a supplier, you are getting a partner.

Our thermoplastic elastomers that have been specifically developed for the automotive industry are also used for alternative drive systems. Our lightweight materials enable you to set new standards for weight reduction and provide you with the right compounds for new mobility applications.

EXTERIOR

MATERIAL BENEFITS THAT ARE IMPRESSIVE

Quality and aesthetics are key properties for automotive exteriors. Our TPEs not only offer effective processing and low mold cavity pressure, but also provide excellent weather and UV resistance.

PROPERTIES

- Adhesion to EPDM
- Efficient processing in multi-component injection molding, excellent adhesion to PP, ASA, PC, PC/ABS, PMMA, etc.
- High surface quality
- Weather and UV resistant

OEM APPROVALS INCLUDE

- 03-10-104 (Renault)
- B62 0300 (PSA)
- DBL 5562, DBL 5422 (Daimler)
- GMW 15702, GMW 16233 (GM)
- GS 93042 (BMW)
- MS-DC-242 (FCA)
- STJLR.51.5306 (JLR)
- TM-1010 (Tesla)
- VW 50123, TL 52622 (VW)
- WSS-M2D505, WSS-M2D517 (Ford)



APPLICATIONS

- Antenna gaskets
- Covers for A/B/C pillars
- Multi-component door sealings
- Roof rails base pads
- Step pads, spoilers
- Water deflectors
- Window encapsulations
- Window sealing systems (corner moldings and end caps)
- Windshield cowl covers

INTERIOR

SWITCHING TO DESIGN AND COMFORT

In automotive interiors, TPEs ensure a pleasant surface feel with their soft-touch elements and reduce disturbing rattling and creaking noises when used for damping elements. With our low-emission TPE solutions, we meet the high OEM requirements for the automotive interior.

PROPERTIES

- Adhesion to PP, ABS, ABS/PC, PA
- Dry and visually appealing surfaces with optimized touch
- Low VOC and fogging values
- Meets all the OEMs odor requirements
- Precise material color matching

OEM APPROVALS INCLUDE

- 03-10-104 (Renault)
- B62 0300 (PSA)
- DBL 5562 (Daimler)
- GMW 15702, GMW 17374, GMW 14722 (GM)
- GS 93042 (BMW)
- MS-DC-242 (FCA)
- STJLR.51.5306 (JLR)
- TM-1010 (Tesla)
- VW 50123 (VW)
- WSS-M2D507 (Ford)



APPLICATIONS

- Adjusting lever for steering wheel & seat
- Buffering and damping elements
- Cable sleeves
- Cup holders
- Door sill panels
- Floor mats
- Gearshifts
- HVAC sealings
- Shelf mats
- Thumb wheels/sliders

POWERTRAIN

SUPERIOR CHARACTERISTICS EVEN UNDER THE HOOD

With engine compartments becoming increasingly complex, our TPEs offer economical alternatives to conventional materials. Our compounds that have been specially developed for the automotive industry can be cost-effectively processed in multi-component injection molding. They exhibit optimal long-term stability when exposed to high temperatures and when in contact with motor oils and greases.

PROPERTIES

- Adhesion – e.g., to PA, PP, POM, PBT
- Chemical stability to substances such as oils, greases, AdBlue and fuels
- Excellent deformation recovery
- High temperature resistance

OEM APPROVALS INCLUDE

- 03-10-104 (Renault)
- B62 0300 (PSA)
- DBL 5562 (Daimler)
- GMW15702 (GM)
- GS 93042 (BMW)
- MS-DC-242 (FCA)
- VW 50123 (VW)
- WSS-M2D516 (Ford)



APPLICATIONS

- Air duct components, ventilation flap controls
- Battery seals
- E-box gaskets
- Grommet
- Mounting elements
- Sealings in oil management
- Tank recesses
- Timing belt covers
- Vibration control elements in the transmission

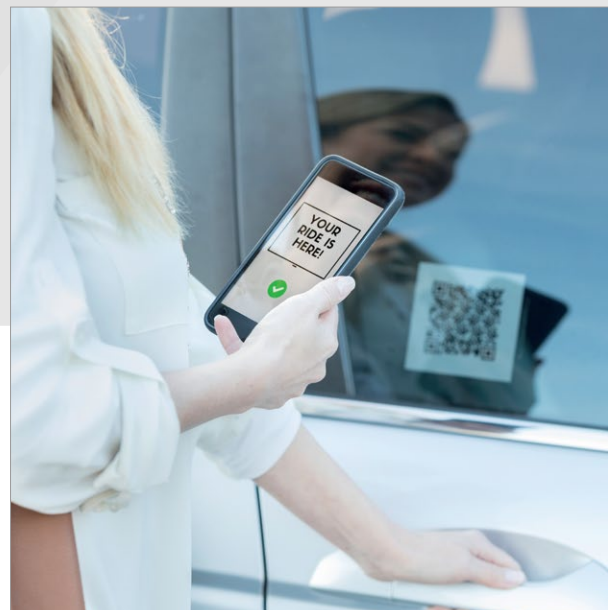
NEW MOBILITY

LOOKING TO THE FUTURE



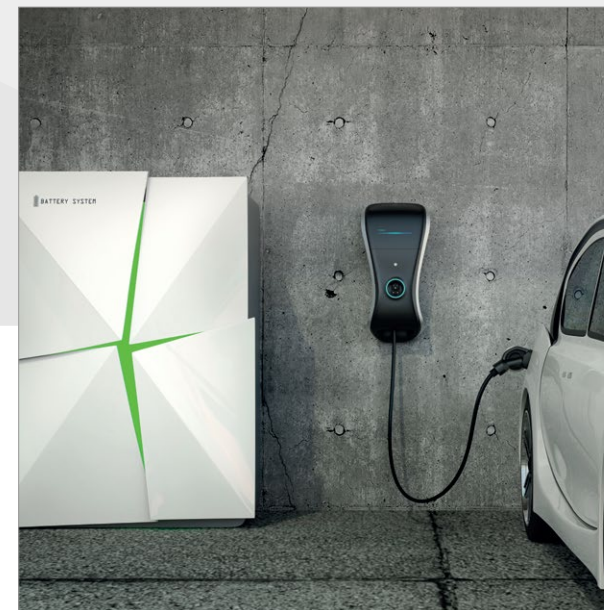
AUTONOMOUS DRIVING

In autonomous driving, the interior becomes an experience, with TPEs providing that special added value and serving for noise reduction and for visual or touch elements, for example.



CAR SHARING

Representation of durable designs: Our TPEs are convincing with their reproduction of fine surface structures and resistance to various antibacterial cleaning chemicals.



E-MOBILITY

Resistance to coolants, vibration protection and flame retardancy are only some of the challenges that need to be faced in electromobility. We have the right portfolio for your application – just get in touch with us.



NEXT MOBILITY

Whatever the future has in store – we are ready. Many years of experience in a wide variety of markets make us your perfect partner for all new forms of mobility – whether in the air, in the water or on the road.

CUSTOM-ENGINEERED PROPERTIES

WHAT ARE YOUR REQUIREMENTS?

The TPE solutions are as multifaceted as the industry itself. Our compounds are established atop the industry in different sectors. For us, there is no such thing as a niche market.

Tell us about the challenges you may be facing while implementing your product idea and we will be pleased to help you improve your product's quality and functionality.

Have we left anything out that you need? Then feel free to contact us.





SERVICE

GOOD ADVICE IS INCLUDED

Your satisfaction is the standard we set for our work. To ensure the highest level of customer satisfaction, we have developed a quality assurance approach that covers the products, processes, and people involved. Our laboratories are designed and equipped to follow the latest state of the art technology.

In other words: you can tell us what challenges you are facing and we will dedicate ourselves to finding the best possible solution. Custom-engineered and extremely high-quality compounds provide the basis for this.

In addition, you will be able to benefit from our technical expertise, built up over many years of experience. Thanks to personal on-site consulting and unique global customer service, you will be able to enjoy the maximum support.



SUSTAINABILITY

ALWAYS LOOKING TO THE FUTURE

EXCELLENCE BY TRANSPARENCY

We rely on certified processes and established standards

KRAIBURG TPE acts and operates in accordance with recognized standards. **These are:**

- **Integrated quality, environment and energy management systems**
- **Certified GRS standard for products produced in Malaysia**
- **Product Carbon Footprint of KRAIBURG TPE-Compounds**
- **Climate targets based on the guidelines of the Sciences Based Target Initiative (SBTi):** Starting from the base year of 2021, the company's scope 1 and scope 2 CO₂e emissions are to be reduced by 46.2 percent by 2031, scope 3 CO₂e by 27.5 percent.
- **ISCC PLUS certification** available for many products in the EMEA sales region
- **Carbon Disclosure Project (CDP)** rating since 2020
- **EcoVadis:** The platform classifies the sustainability of companies in holistic ratings. Our commitment to sustainability at our locations has been awarded "Gold" and "Silver" in the past.



TPE PORTFOLIO SERIES

AUTOMOTIVE SECTOR

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THERMOLAST® K

Series AD1

The AD1 series is your material solution for applications with adhesion to polar thermoplastics such as ABS, PC and PC/ABS. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxMLB	50 – 80 Shore A	Natural	ABS, PC, PC/ABS
TCxMLZ	50 – 80 Shore A	Black	
TCxMSB	30 – 40 Shore A	Natural	
TCxMSZ	30 – 40 Shore A	Black	

Typical Applications

- Bumpers
- Door sills
- Function and design elements
- Grommets
- Handles (tools and power tools, etc.)
- Seals
- Soft touch surface (thumb wheels, push buttons, switches)
- Thumb wheels

Material Advantages

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

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
- BMW GS 93042
- DIN 75201-B – Fogging
- DIN EN ISO 105-B06 Method 3
- Ford WSS-M2D507
- Mercedes-Benz DBL 5562
- Renault 03-10-104
- Stellantis B62 0300
- UL 94 HB
- VDA 270 B3 – Odor
- VW 50123

THERMOLAST® K

Series AD1/AP

The AD1/AP series is your material solution for automotive interior or industry applications with adhesion to polar thermoplastics such as ABS, PC and PC/ABS for Asia Pacific Market. The compounds are available in black colors.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxPGG-BLCK	50 – 80 Shore A	Black	ABS, PC, PC/ABS

Typical Applications

- Automotive Interior
- Bumpers
- Car mats
- Door sills
- Function and design elements
- Grommets
- Handles (hand tools and power tools etc.)
- Seals
- Soft touch surface (thumb wheels, push buttons, switches)
- Thumb wheels

Material Advantages

- Adhesion to ABS, PC, PC/ABS
- Adhesion to POM
- Automotive Interior UV Resistance
- Controlled level of emission and odor, suitable for automotive interior
- In-process recycling possible
- Insert molding possible
- Soft touch surface
- Temperature stability up to 90 °C

THERMOLAST® K

Series
AD1/CS

The AD1/CS series is your material solution for applications with optimized compression set and adhesion to polar thermoplastics such as ABS, PC, PC/ABS, and PBT. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TPxVCN	50 – 80 Shore A	Natural	ABS, PBT, PC, PC/ABS
TPxVCZ	50 – 80 Shore A	Black	

Typical Applications

- Bumpers
 - Cable clips
 - Function and design elements
- Grommets
 - Seals
 - Soft touch surface (thumb wheels, push buttons, switches)

Material Advantages

- Adhesion to ABS, ASA, PC, PC/ABS, SAN
 - Adhesion to PBT
- Optimized compression set
 - Optimized mechanical properties

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
 - BMW GS 93042
 - Mercedes-Benz DBL 5562
- Stellantis B62 0300
 - UL 94 HB
 - VW 50123

THERMOLAST® K

Series
AD/PA

The AD/PA series is your material solution for applications with adhesion to PA. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxPAN	20 – 80 Shore A	Natural	PA
TCxPAZ	20 – 80 Shore A	Black	

Typical Applications

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

Material Advantages

- Adhesion to PA6 and PA6.6, up to 50% glass fiber
 - Adhesion to PA12
 - Colorable
- Dry haptic
 - Halogen-free (according to IEC 61249-2-21)
 - Temperature stability up to 90 °C

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
 - BMW GS 93042
 - DIN 75201-B – Fogging
 - DIN EN ISO 105-B06 Method 3
 - GM GMW15702
- Mercedes-Benz DBL 5562
 - Renault 03-10-104
 - Stellantis B62 0300
 - UL 94 HB
 - VW 50123

THERMOLAST® K

Series
AD/PA/CS

The AD/PA/CS series is your material solution for applications with excellent adhesion to PA and sealing function. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxPCN	40 – 80 Shore A	Natural	PA
TCxPCZ	35 – 75 Shore A	Black	

Typical Applications

- Cable clips
 - Fastenings
 - Grommets
- Membranes
 - Seals

Material Advantages

- Adhesion to PA6 and PA6.6, up to 50% glass fiber
 - Optimized compression set
- Optimized flow properties

Regulations / Approvals

- BMW GS 93042
 - GM GMW15702
 - Mercedes-Benz DBL 5562
 - Renault 03-10-104
- Stellantis B62 0300
 - UL 94 HB
 - VW 50123

THERMOLAST® K

Series
AD/POM

The AD/POM series is your material solution for applications with adhesion to POM. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxHAA	50 – 80 Shore A	Natural	POM
TCxHAZ	50 – 80 Shore A	Black	
TCxHBA	60 – 70 Shore A	Natural	
TCxHBZ	60 – 70 Shore A	Black	

Typical Applications

- Bumpers
 - Components for conveying systems
 - Function and design elements
- Handles (tools and power tools, etc.)
 - Thumb wheels

Material Advantages

- Adhesion to POM
 - Colorable
- Soft touch surface

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
 - BMW GS 93042
 - DIN 75201-B – Fogging
 - DIN EN ISO 105-B06 Method 3
 - GM GMW15702
- Mercedes-Benz DBL 5562
 - Renault 03-10-104
 - VDA 270 B3 – Odor
 - VW 50123

THERMOLAST® K

Series
CS

The CS series is your material solution for sealing applications with adhesion to PP. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxCSN	30 – 90 Shore A	Natural	PP
TCXCSZ	30 – 90 Shore A	Black	

Typical Applications

- Applications in e-mobility
- Bumpers
- Cable clips
- Fastenings

- Grommets
- Membranes
- Seals

Material Advantages

- Adhesion to PP
- In-process recycling possible
- Optimized compression set

- Optimized mechanical properties
- Optimized resilience
- Resistance to polar coolants

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
- BMW GS 93042
- DIN 75201-B - Fogging
- Mercedes-Benz DBL 5562
- PV 3929 Kalahari (1 year)
- PV 3929 Kalahari (2 years)
- PV 3930 Florida (1 year)

- PV 3930 Florida (2 years)
- Renault 03-10-104
- Stellantis B62 0300
- Stellantis MS-DC-242
- UL 94 HB
- VW 50123

THERMOLAST® K

Series
FG/SF

The FG/SF series is your material solution for automotive interior applications with special surface appearance and adhesion to PP. The material offers low emission and odor values combined with high abrasion resistance. The compounds are available in black and many other automotive interior colors.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxFEZ	50 – 80 Shore A	Black	PP

Typical Applications

- Automotive Interior
- Car mats
- Floor mats

- Function and design elements
- Grip applications

Material Advantages

- Abrasion resistance
- Adhesion to PP
- Colorable
- Controlled level of emission and odor, suitable for automotive interior

- Low density
- Non-sticky surface
- Optimized flow properties
- Soft touch surface

Regulations / Approvals

- BMW GS 93042
- Mercedes-Benz DBL 5562
- Renault 03-10-104

- Stellantis B62 0300
- VW 50123

THERMOLAST® K

Series
FG/SF/AP

The FG/SF/AP series is your material solution for automotive interior applications with a good surface appearance and quality requirements for the Asia Pacific market. It is characterized by its easy processability. The compounds are available in black.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxOPS-BLCK	60 – 80 Shore A	Black	PP

Typical Applications

- Automotive interior
- Bumper
- Car mats
- Door sills
- Function and design elements

- Grommets
- Handles (hand tools and power tools etc.)
- Seals
- Soft touch surface (thumb wheels, push buttons, switches)
- Thumb wheels

Material Advantages

- Adhesion to PP
- Controlled level of emission and odor, suitable for automotive interior
- Demolding
- In-process recycling possible

- Insert molding possible
- Low density
- Optimized flow properties
- Surface mapping
- Temperature stability up to 100 °C

THERMOLAST® K

Series
FR/AP

The FR/AP series is your material solution for applications with flame retardant requirements for the Asia Pacific market. The compounds are halogen-free according to IEC 61249-2-21. The UL94 V-0 (3.0 mm) certificate is valid for available hardness range and for natural and coloured compounds.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxFLN	40 – 90 Shore A	Natural	PP
TCxFLZ	40 – 90 Shore A	Black	

Typical Applications

- Cable management systems e.g. cable holders, cable glands and grommets

- Gaskets for electric and electronic applications e.g. cable boxes

Material Advantages

- Adhesion to PP
- Halogen-free (according to IEC 61249-2-21)
- High glow-wire flammability index (GWFI)
- In-process recycling possible

- Precoloration in all colors
- Self-extinguishing, no release of burning droplets
- Temperature stability up to 85 °C

Regulations / Approvals

- UL 94 V-0 (3 mm)

THERMOLAST® K

Series
FR2

The FR2 series is your material solution for applications with high flame-retardant requirements. The compounds are halogen-free according to IEC 61249-2-21. The UL94 V-0 (1.5 mm) certificate and the classification according to DIN EN 45545-2 R22 HL2 and DIN EN 45545-2 R23 HL3 is valid for available hardness range and for natural and colored compounds.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxFTN	50 – 90 Shore A / 40 Shore D	Natural	PP
TCxFTZ	50 – 90 Shore A / 40 Shore D	Black	

Typical Applications

- Applications in railway sector
- Cable management systems e.g. cable holders, cable glands and grommets

- Electrical insulation for busbars
- Gaskets for electric and electronic applications e.g. cable boxes

Material Advantages

- Adhesion to PP
- Fulfills railway requirements such as high LOI, low toxicity and smoke density
- Halogen-free (according to IEC 61249-2-21)
- High glow-wire flammability index (GWFI)
- In-process recycling possible

- No silicones added
- Precoloration in all colors
- Self-extinguishing, no release of burning droplets
- Stability in conditions up to 60 °C and 75% humidity
- Temperature stability up to 85 °C

Regulations / Approvals

- DIN EN 45545-2 R22 HL2
- DIN EN 45545-2 R23 HL3
- DIN EN 45545-2 R26

- IEC 60695-2-12:2021-10 (GWFI) 960 °C / 2 mm
- UL 94 V-0 (1.5 mm)

THERMOLAST® K

Series
GP/FG

The GP/FG series is your material solution for a variety of applications. It is suitable for automotive interiors. The compounds are available in black and natural colors. Natural colored variants can be colored in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxGPN	20 – 90 Shore A / 33 Shore D	Natural	PP
TCxGPZ	20 – 90 Shore A / 34 Shore D	Black	

Typical Applications

- Air flap control
- Air guide elements
- Bumpers
- Cable clips
- Car mats

- Fasteners
- Handles (tools and power tools, adjustment lever, etc.)
- Joint sealing
- Seals for housings

Material Advantages

- Adhesion to PP
- Colorable
- Controlled level of emission and odor, suitable for automotive interior
- Dry haptics

- Halogen-free (according to IEC 61249-2-21)
- In-process recycling possible
- Optimized mechanical properties
- Soft touch surface

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
- BMW GS 93042
- DIN 75201-B – Fogging
- DIN EN ISO 105-B06 Method 3
- Ford WSS-M2D507
- Ford WSS-M2D516
- GM GMW15702
- Mercedes-Benz DBL 5562

- PV 3929 Kalahari (1 year)
- PV 3930 Florida (1 year)
- Renault 03-10-104
- Stellantis B62 0300
- UL 94 HB
- VDA 270 B3 – Odor
- VW 50123

THERMOLAST® K

Series
LW/CS/UV

The LW/CS/UV Series is your lightweight material solution for applications with superior requirements on sealing performance. The compounds are especially suited for automotive exterior applications. They are available in black colors.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TLxOCW-BLCK	35 – 75 Shore A	Black	PP

Typical Applications

- Automotive Exterior
- Bumpers
- Glass Run Channel
- Grommets

- Heavy-walled parts
- Seals
- Seals for windows and doors

Material Advantages

- Adhesion to PP
- In-process recycling possible
- Low density
- Low shrinkage properties
- Low tendency to warpage

- Non-sticky surface
- Optimized compression set
- Resilience
- UV and weathering resistance

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
- Mercedes-Benz DBL 5562
- Outdoor Weathering Arizona 12 month SAE J1976
- Outdoor Weathering Arizona 24 month SAE J1976
- Outdoor Weathering Florida 12 month SAE J1976
- Outdoor Weathering Florida 24 month SAE J1976

- PV 3929 Kalahari (1 year)
- PV 3929 Kalahari (2 years)
- PV 3930 Florida (1 year)
- PV 3930 Florida (2 years)
- VW 50123

THERMOLAST® K

Series
LW/UV

The LW/UV Series is your lightweight material solution for applications with high UV- and weathering resistance, especially in automotive exterior. The compounds are available in black colors.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TLxOWG-BLCK	60 – 80 Shore A	Black	PP

Typical Applications

- Automotive Exterior
- Bumpers
- Cowls gaskets
- Edge guards

- Function and design elements
- Heavy-walled parts
- Roof racks
- Water deflectors

Material Advantages

- Adhesion to PP
- In-process recycling possible
- Low density
- Low shrinkage properties

- Low tendency to warpage
- Non-sticky surface
- UV and weathering resistance

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
- Mercedes-Benz DBL 5562
- Outdoor Weathering Arizona 12 month SAE J1976
- Outdoor Weathering Arizona 24 month SAE J1976
- Outdoor Weathering Florida 12 month SAE J1976

- Outdoor Weathering Florida 24 month SAE J1976
- PV 3929 Kalahari (1 year)
- PV 3929 Kalahari (2 years)
- PV 3930 Florida (1 year)
- PV 3930 Florida (2 years)

THERMOLAST® K

Series
UV/AD2

The UV/AD2 series is your material solution for applications requiring UV resistance and adhesion to polar thermoplastics such as PC, ABS, PC/ABS, ASA and PMMA. It is particularly suitable for automotive exterior applications. The compounds are available in black.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxMUZ	55 – 80 Shore A	Black	ABS, ASA, PC, PC/ABS, PMMA, SAN

Typical Applications

- A/B/C/D cappings and covers
 - Brake lights
 - Door sills
 - Front triangles
 - Head lights
- Rear spoilers
 - Roof rim covers
 - Trunk openers
 - Water deflectors

Material Advantages

- Adhesion to ABS, ASA, PC, PC/ABS, PMMA, SAN
 - Surface mapping
- Weather resistant, suitable for automotive exterior

Regulations / Approvals

- BMW GS 93042
 - GM GMW15702
 - Mercedes-Benz DBL 5562
 - Outdoor Weathering Arizona 12 month SAE J1976
 - Outdoor Weathering Arizona 24 month SAE J1976
 - Outdoor Weathering Florida 12 month SAE J1976
 - Outdoor Weathering Florida 24 month SAE J1976
- PV 3929 Kalahari (1 year)
 - PV 3929 Kalahari (2 years)
 - PV 3930 Florida (1 year)
 - PV 3930 Florida (2 years)
 - Renault 03-10-104
 - Rivian
 - VW 50123

THERMOLAST® K

Series
UV/FG

The UV/FG series is your material solution for applications requiring UV resistance and adhesion to PP. The compounds are suitable for automotive exterior applications and available in black.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxLEZ	30 – 90 Shore A / 35 Shore D	Black	PP

Typical Applications

- A/B/C/D cappings and covers
 - Active Grill Shutter (AGS)
 - Air guide elements
 - Air intake duct and air filter
 - Cowls gaskets
 - Door opener
- Door trims
 - Roof racks
 - Underbody guard
 - Water deflectors
 - Wheel arch liner

Material Advantages

- Adhesion to PP
 - In-process recycling possible
- Weather resistant, suitable for automotive exterior

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
 - BMW GS 93042
 - GM GMW 16233
 - Mercedes-Benz DBL 5562
 - Outdoor Weathering Arizona 24 month SAE J1976
 - Outdoor Weathering Florida 24 month SAE J1976
 - PV 3929 Kalahari (1 year)
- PV 3929 Kalahari (2 years)
 - PV 3930 Florida (1 year)
 - PV 3930 Florida (2 years)
 - Renault 03-10-104
 - Stellantis B62 0300
 - VW 50123

THERMOLAST® K

Series
UV/LD/b

The UV/LD/b series is your material solution for applications requiring optimized mechanics and UV resistance. The compounds are suitable for automotive exterior applications with adhesion to PP. They are available in black.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TPxLDZ	30 – 80 Shore A / 35 Shore D	Black	PP

Typical Applications

- Automotive Exterior
 - Brake lights
 - Cowls gaskets
 - Function and design elements
- Head lights
 - Roof racks
 - Water deflectors
 - Window encapsulations

Material Advantages

- Adhesion to PP
 - In-process recycling possible
 - Optimized compression set
- Optimized mechanical properties
 - Surface mapping
 - Weather resistant, suitable for automotive exterior

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
 - BMW GS 93042
 - DIN 75201-B – Fogging
 - Ford WSS-M2D517
 - GM GMW 16233
 - GM GMW15702
 - Mercedes-Benz DBL 5562
 - Outdoor Weathering Arizona 24 month SAE J1976
 - Outdoor Weathering Florida 24 month SAE J1976
 - PV 3929 Kalahari (1 year)
- PV 3929 Kalahari (2 years)
 - PV 3930 Florida (1 year)
 - PV 3930 Florida (2 years)
 - Renault 03-10-104
 - Stellantis B62 0300
 - Stellantis MS-DC-242
 - UL 94 HB
 - VDA 270 B3 – Odor
 - VW 50123

THERMOLAST® K

Series
VS/AD/HM

The VS/AD/HM series is your material solution for applications with velvety surfaces and wear high resistance requirements. It convinces by its adhesion properties to polar thermoplastics as well as by its resistance to nonpolar substances, especially sebum skin grease and skin oils. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
TCxCEN	40 – 80 Shore A	Natural	ABS, ASA, PA, PC, PC/ABS, SAN
TCxCEU	60 – 80 Shore A	Natural	
TCxCEZ	40 – 80 Shore A	Black	

Typical Applications

- Automotive interior
 - Car mats
 - Cell phone covers
 - Earphones
 - Function and design elements
- Handles (tools and power tools, etc.)
 - Remote controls
 - Soft touch surface (thumb wheels, push buttons, switches)
 - Wearables

Material Advantages

- Abrasion resistance
 - Adhesion to ABS, ASA, PA, PC, PC/ABS, SAN
 - Adhesion to PA6 and PA12
 - Halogen content (chlorine + bromine) < 900 ppm
- Optimized mechanical properties
 - Resistance to skin oils, sunscreen or olive oil
 - Scratch resistance
 - Soft, velvety feel

Regulations / Approvals

- BMW GS 93042
 - ISO 10993-10 (Skin irritation)
 - Mercedes-Benz DBL 5562
 - Renault 03-10-104
 - Stellantis B62 0300
- Stellantis MS-DC-242
 - TESLA TM-1010
 - UL 94 HB
 - VW 50123

THERMOLAST® R

Series
RC/GP/FG

The RC/GP/FG series is your material solution for a variety of applications with a recycling content above 70%. It fullfills requirements for automotive applications. The compounds are available in black.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
RRxGPZ	25 - 95 Shore A	Black	PP

Typical Applications

- 2-component seals for doors
 - Active Grill Shutter (AGS)
 - Air guide elements
- Handles (tools and power tools, etc.)
 - HVAC applications
 - Interior mats, e.g. floor, console, dashboard and door mats

Material Advantages

- Adhesion to PP
 - Controlled level of emission and odor, suitable for automotive interior
 - Dry haptics
 - In-process recycling possible
- Recycled raw material content
 - Recycling-specific raw material influences are possible
 - Reduced PCF compared to virgin compound
 - Soft touch surface
 - Sustainable material

THERMOLAST® R

Series
RC/UV/AP

The RC/UV/AP series is your material solution with a post-consumer recycled content of 15-40% (hardness-dependent) for applications requiring UV resistance and adhesion to PP for Asia Pacific Market. The compounds are suitable for automotive exterior applications and are available in black.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
RCxOWM	50 – 90 Shore A	Black	PP

Typical Applications

- Applications for new mobility
 - Automotive Exterior
 - Covers
 - Cowls gaskets
 - Door and window seals for outdoor applications
- End caps
 - Roof rack seals
 - Underbody applications
 - Water deflector
 - Window encapsulations

Material Advantages

- Adhesion to PP
 - Low density
 - Recycled raw material content
- Recycling-specific raw material influences are possible
 - Temperature stability up to 90 °C
 - Weather resistant, suitable for automotive exterior

THERMOLAST® V

Series
LTP

The LTP series is your material solution for applications with sealing function and temperature resistance requirements. The compounds are characterized by their adhesion to PP. They are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TVxLVN	50 – 90 Shore A	Natural	PP
TVxLVZ	50 – 90 Shore A	Black	

Typical Applications

- Applications in e-mobility
 - Bumpers
 - Fastening
- Grommets
 - Mechanical components
 - Seals

Material Advantages

- Adhesion to PP
 - Hysteresis
 - In-process recycling possible
 - Long-term sealing function
- Optimized compression set
 - Optimized mechanical properties
 - Resistance to polar coolants

Regulations / Approvals

- BMW GS 93042
 - GM GMW15702
 - Mercedes-Benz DBL 5562
- Stellantis B62 0300
 - UL 94 HB
 - VW 50123

THERMOLAST® V

Series
LTP/PA

The LTP/PA range is your material solution for sealing applications and temperature resistance requirements. The compounds are characterized by their adhesion to PA. The compounds are available in black and natural. Natural color variants can be colored in a variety of ways.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
TVxVAN	60 – 80 Shore A	Natural	PA
TVxVAZ	50 – 80 Shore A	Black	

Typical Applications

- Applications in e-mobility
 - Bumpers
 - Fastening
- Grommets
 - Mechanical components
 - Seals

Material Advantages

- Adhesion to PA6 and PA6.6
 - Adhesion to PA12
 - Hysteresis
 - In-process recycling possible
- Long-term sealing function
 - Optimized compression set
 - Optimized mechanical properties
 - Resistance to polar coolants

Regulations / Approvals

- BMW GS 93042
 - Mercedes-Benz DBL 5562
- UL 94 HB
 - VW 50123

COPEC®

Series
VS/AD1

The VS/AD1 series is your material solution for consumer electronics applications. It is characterized by a silky and velvety surface. The compounds convince by their adhesion to polar thermoplastics such as ABS, PC or PC/ABS. They are available in black and natural. Naturally colored variants can be coloured in many different ways.

Processing Method : Extrusion, Injection Molding

Compound Name	Hardness	Color	Adhesion
CCxOCN	60 – 80 Shore A	Natural	ABS, ASA, PA, PC/ABS, SAN
CCxOCZ	60 – 80 Shore A	Black	

Typical Applications

- Attenuators for electronic housings
 - Cell phone covers
 - Earphones
 - Games consoles
 - Handles (tools and power tools, etc.)
- Handles and grips for consumer applications
 - Remote controls
 - Seals
 - Wearables

Material Advantages

- Adhesion to ABS, ASA, PC, PC/ABS, SAN
 - Color consistency
 - Colorable
 - Insert molding possible
- Resistance to skin oils, sunscreen or olive oil
 - Soft touch surface
 - Soft, velvety feel

Regulations / Approvals

- 49 CFR §571.302 (FMVSS 302)
 - BMW GS 93042
 - DIN 75201-B – Fogging
 - DIN EN ISO 105-B06 Method 3
 - Mercedes-Benz DBL 5562
- Stellantis B62 0300
 - UL 94 HB
 - VDA 270 B3 – Odor
 - VW 50123

HIPEX®

Series
HTR/OR

The HTR/OR series is your material solution for applications requiring temperature and oil resistance. The compounds are available in black and natural colors. Natural colored variants can be colored in many different ways.

Processing Method : Injection Molding

Compound Name	Hardness	Color	Adhesion
HXXIDN	60 – 80 Shore A	Natural	PBT
HXXIDZ	60 – 80 Shore A	Black	

Typical Applications

- Bumpers
 - Closures
 - Fastening
- Flexible Connections
 - Mechanical components
 - Seals for housings

Material Advantages

- Adhesion to PBT
 - In-process recycling possible
 - Oil resistant TPV
 - Resistance to engine and gear oils
- Resistance to grease and oils
 - Temperature stability up to 150 °C
 - Thermoplastic alternative to elastomers



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