

ENGI-
NEERING
LIFE

**TPE SOLUTIONS FOR
AUTOMOTIVE INTERIOR
APPLICATIONS**





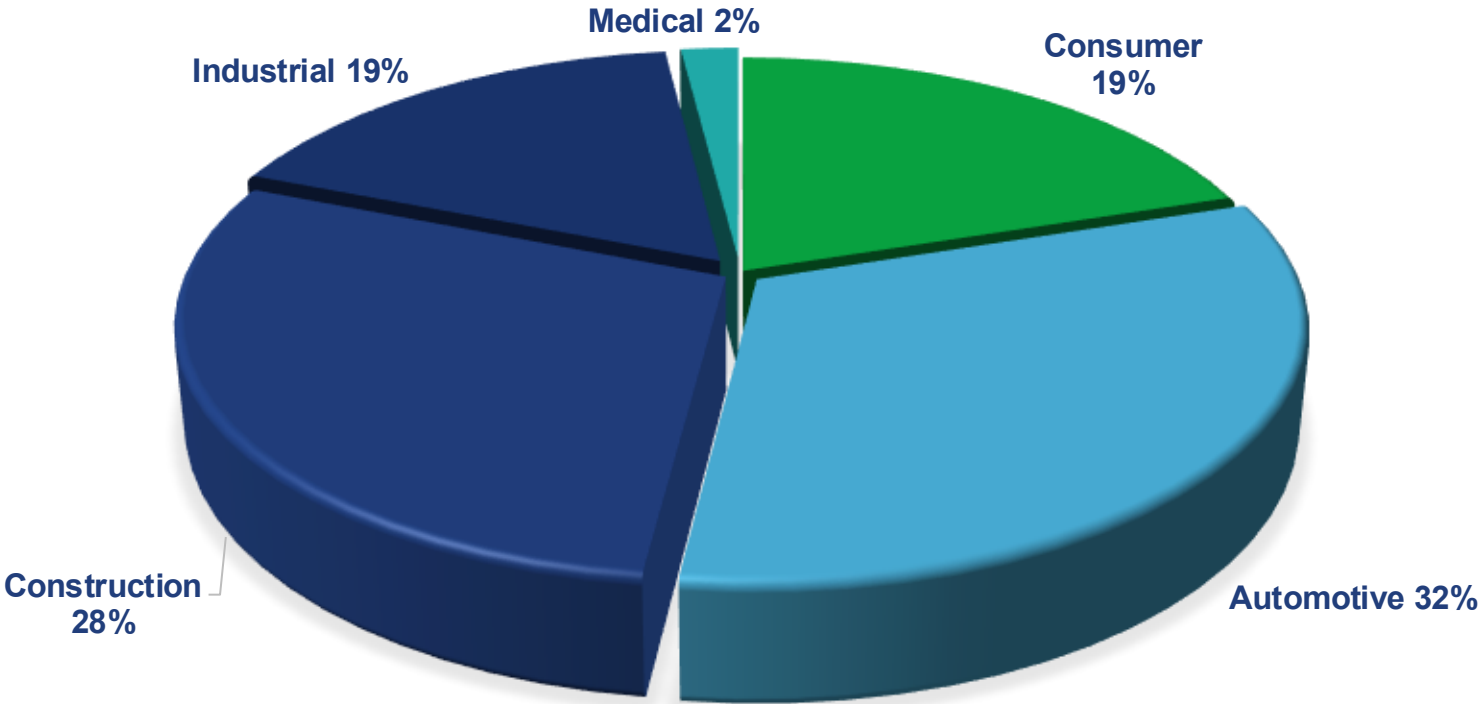
**Everyday Life
Engineering
Partner of
Global TPE Users**



MARKETS



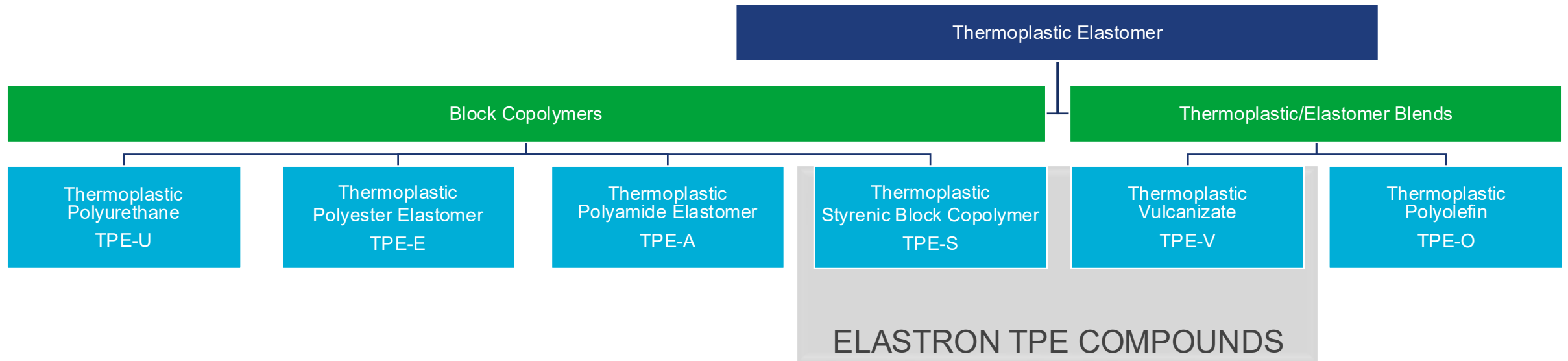
Markets	Percentage Distribution
Automotive	32%
Construction	28%
Consumer	19%
Industrial	19%
Medical	2%





Thermoplastic Elastomers

Thermoplastic elastomers are a group of rubber-like materials that, unlike vulcanized conventional rubber materials, can be processed and recycled like thermoplastic materials. Thermoplastic Elastomers do not require curing or vulcanization during processing and can be processed by traditional thermoplastic processing equipments.





Temperature
Resistance



Weathering
Resistance



Recyclability



Wide Hardness
Range



Easy
Coloring

	Elastron G	Elastron V	Elastron D
Structure	SEBS/PP based TPE compounds	Crosslinked TPE compounds	SBS/PP based TPE compounds
Hardness (Shore A/D)	12 A - 65 D	30 A - 65 D	20 A - 65 D
Density (g/cm ³)	Min. 0,88	Min. 0,90	Min. 0,89
Compression Set	Good	Very Good	Medium
Elasticity	High	Very High	Medium
Service Temperature (°C)	-50°C to 120°C	-50°C to 135°C	-50°C to 70°C
Organic Solvent Resistance	Variable	Variable	Poor
Acid-Base Resistance	Good	Good	Good
Adhesion (Standard grades)	PP, PE, EVA	PP, PE, EVA	PP, PE, EVA
Adhesion (Bondable grades)	ABS, PC, PC/ABS, PBT, PETG, ASA, SAN, PMMA, PET, PA6/6.6, PS, HIPS, EPDM	EPDM	PS



General Purpose Grades

- Multi-purpose TPE-S and TPV compounds
- Various series lightweight to high density
- Extrusion grades to high flow grades
- **V101 – G101 Series**
- **V100 – G100 Series**

Weatherseal Grades

- Excellent long-term performance for outdoor applications
- **V251 – G261 Series**
- **V250 – G260 – G250 Series**

High Temperature Resistant Grades

- Excellent long-term performance at high temperatures for sealing applications
- **G201 – V201 Series**

High Flow Grades

- Low viscosity
- Easy filling of complex molds
- Long term performance for outdoor applications
- **G150 – G104 Series**

Low Coefficient of Friction Grades

- Low friction for semi-dynamic applications
- **V216 – V206 Series**

Bondable Grades

- Special TPE compounds for overmolding onto engineered plastics to attain soft touch property.
- **G500 – PA/ABS/PS Series**
- **G510 – EM Series**

Flame Retardant Grades

- UL V0 listed grades
- Low smoke density
- V1 – V2 grades
- HFFR – FR grades
- **G601 – V601 Series**
- **G611 – V611 Series**

Non-hygroscopic TPVs

- Non-hygroscopic TPVs where good sealing properties and surface appearance are important
- **V860 – V861 Series**

Special Grades Conforming Various Regulations

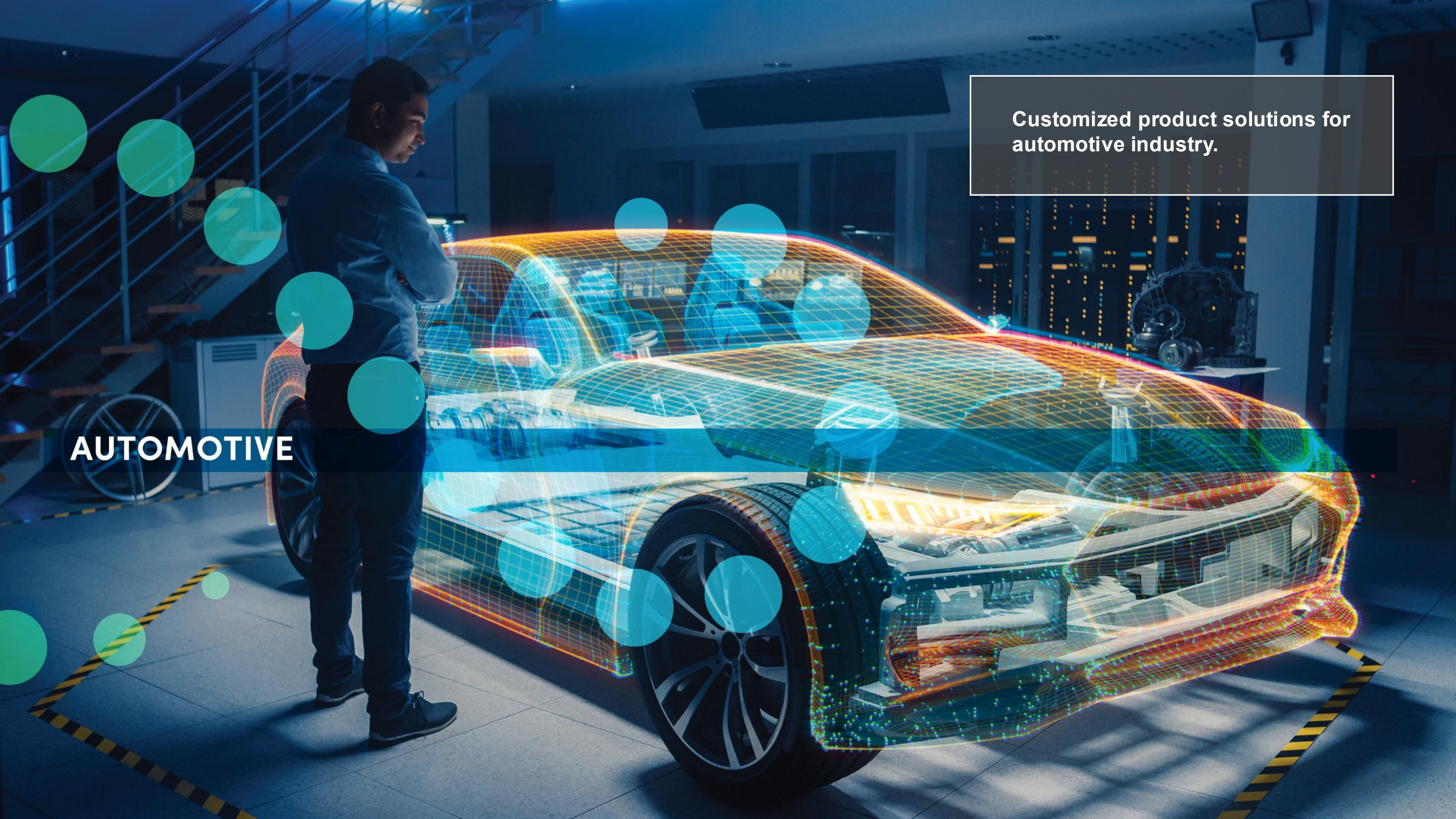
- NSF/ANSI 61
- EU 10/2011
- FDA 21 CFR
- USP CLASS VI
- **F.G & F.V - P.G & P.V series**
- **V281 Series**

Impact Modifiers for

- PP
- HDPE
- ABS
- PC
- PS
- PA

Customized product solutions for
automotive industry.

AUTOMOTIVE





Elastron TPE Grades for Automotive Applications

- Excellent weathering and ozone resistance
- Abrasion resistance
- Adhesion to PP, PE, EPDM etc. and engineering plastics (ABS,PC,PA, etc.)
- High temperature resistance
- OEM approved grades
- Excellent compression set
- Low temperature resistance
- Recyclability





Segments & Highlighted Applications

WEATHERSEALS

- Inner & Outer Belt Line Seals
- Glass Run Channels
- Sunroof Seals
- Glass Encapsulation
- Corner Molding
- Slip Coat
- End Caps

UNDER THE HOOD & CHASIS

- Active Grill Shutters
- Air Guide Shutters
- Air Duct
- Grommets & Plugs
- Boots & Bellows
- Hose, Pipes & Connectors
- Cable

INTERIOR

- Pad Heel
- Pads & Cup Holders
- Gearshift & Handbrake Bellow
- HVAC Flap Seals
- Floor Mats
- Pedal Cover
- Glovebox Cover & Housings

EXTERIOR

- Side & Front Spoiler
- Mud Flaps & Wheel Protection
- Exterior Mirror Seal
- Cowl Vent Seal
- Wiper Blade
- Fuel Entrance Cover Seal
- Charge Port Seal





Material Properties	Design	Processing	Safety & Regulation	OEM Approvals	Sustainability
•Weathering Resistance •Heat Resistance •Low Compression Set •Lightweight •Abrasion and Scratch Resistance •Rubbing Performance •Wide Hardness Range	•Smooth Surface •Glossy Finish to a Matt Look •Adhesion to Engineering Plastics •OEM Approved Color Codes	•Single / Multi-injection •Overmolding •Recyclability •High Flow Grades •Short Processing Cycle Time •Low Energy Consumption •No Curing Required •No Significant Smoke During Processing	•ELV (2000/53/CE) •TL 1010 •FMVSS 302 •ISO 3795	•RENAULT 03-10-104	•PIR / PCR Grades •LCA Data •High Recycle Content •In Process Recyclability •Reducing of CO2 Emission



TPEs for Interior

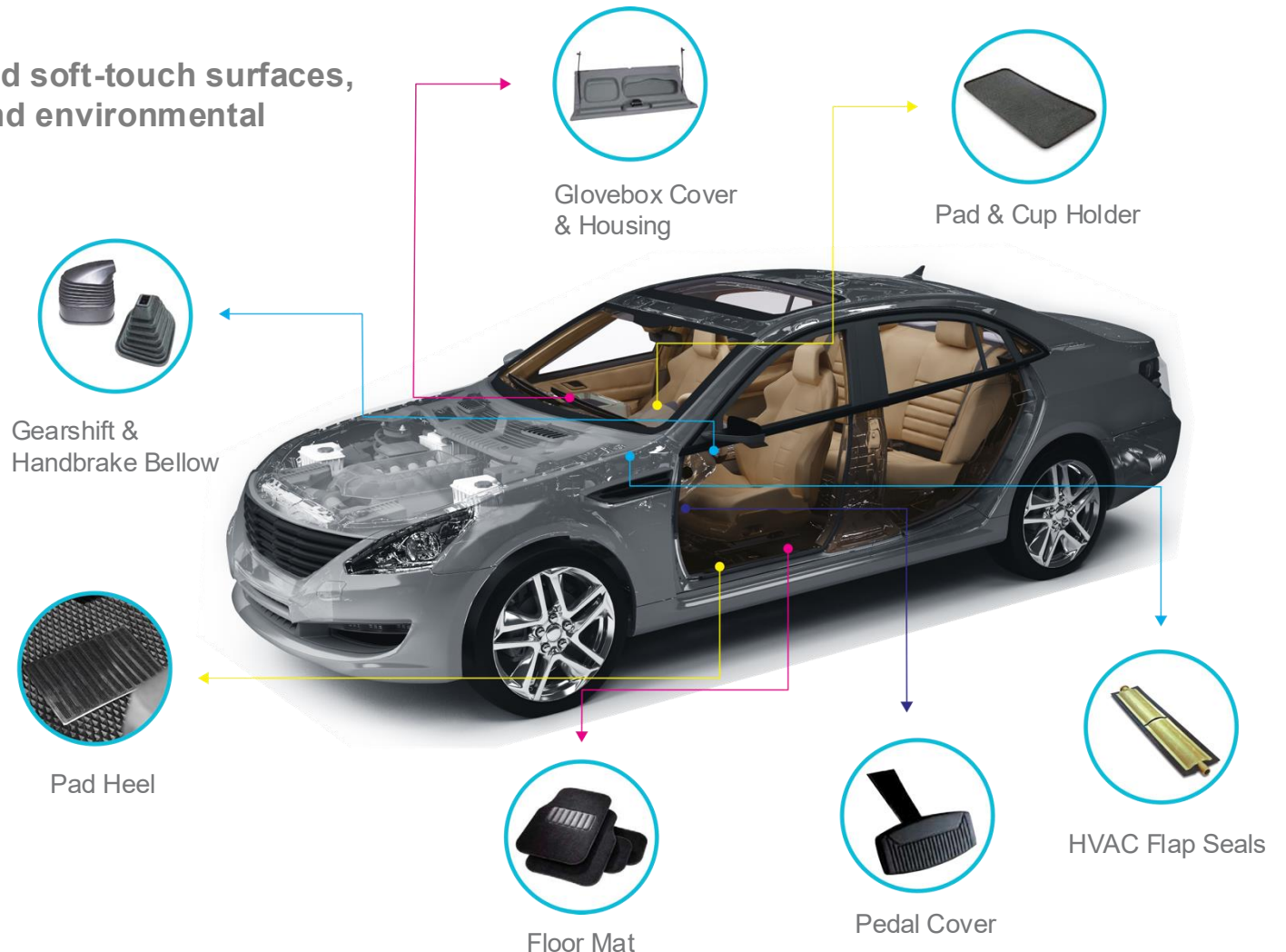
Automotive interiors leverage TPEs for their durability and soft-touch surfaces, enhancing dashboards, seals, and trims with aesthetic and environmental benefits in a single solution.

Functions;

- Preventing Degradation from UV, Scratch and Abrasion
- Insulation and High Surface Quality
- Long Term Dimensional Stability and Resistance

TPEs have benefits such as;

- UV Resistance
- Colorable
- Soft Touch, Antislip
- Scratch and Abrasion Resistance
- Low Emission
- Low Weight
- Low Odour Behavior
- Easy Process and Good Flow Property
- Recyclable





FLOOR MATS

Product

- G103.A63.B
- G103.A69.B
- G103.A79.B
- G993.A30.B
- G993.A40.B
- G993.A80.B

Key Features

- ✓ Low Odor
- ✓ Low VOC Emission
- ✓ Abrasion Resistant
- ✓ Short Processing Cycle Time
- ✓ Suitable Grades for Sheet Extrusion
- ✓ Weight Reduction
- ✓ Anti-slip Property





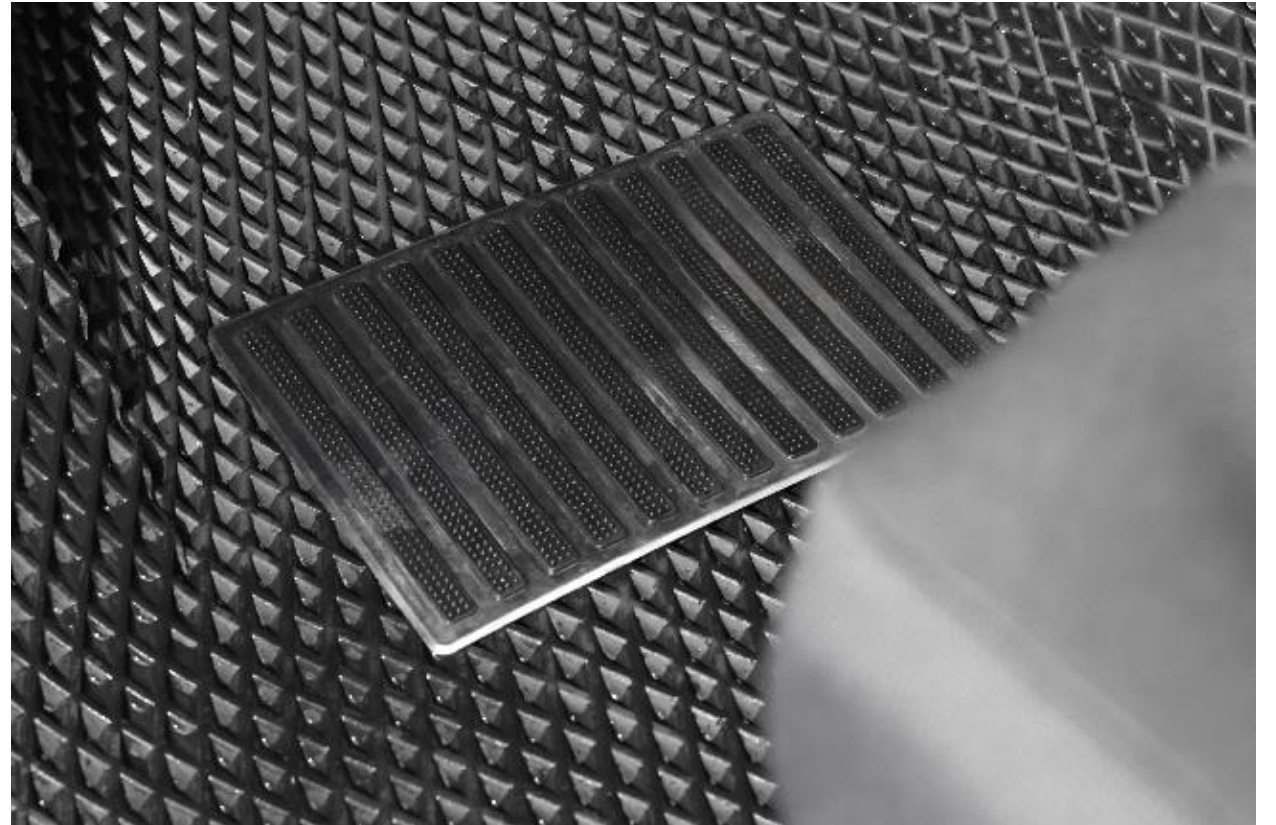
PAD HEEL

Product

- V100.A50.B
- G100.A80.B

Key Features

- ✓ Soft & Flexible
- ✓ Low Odor
- ✓ Low VOC Emission
- ✓ Anti-slip Property





PEDAL COVER

Product

- V101.A72.B
- G400.A80.B
- G400.A65.B
- G300.A75.B
- G100.A80.B

Key Features

- ✓ Low Odor
- ✓ Low VOC Emission
- ✓ Abrasion Resistant
- ✓ Short Processing Cycle Time
- ✓ Anti-slip Property





GEARSHIFT & HANDBRAKE BELLOW

Product

- V101.D40.B

Key Features

- ✓ Low Odor
- ✓ Low VOC Emission
- ✓ Interior Weathering Resistance
- ✓ Flexibility





GLOVEBOX COVER & HOUSINGS

Product

- V101.A55.B
- V101.A65.B
- V101.A72.B
- G500.A40.B.PA
- G500.A70.B.ABS

Key Features

- ✓ Low Odor
- ✓ Low VOC Emission
- ✓ Abrasion & Scratch Resistance
- ✓ Interior Weathering Resistance
- ✓ Adhesion to Polyolefins and Engineering Plastics





PADS & CUP HOLDERS

Product

- G300.A65.B
- G300.A85.B
- G250.A65.B
- G400.A65.B
- G400.A70.B
- G400.A75.B
- G260.A65.B
- G500.A80.B.PA
- G500.A80.B.ABS

Key Features

- ✓ Low Odor
- ✓ Low VOC Emission
- ✓ Adhesion to Polyolefins and Engineering Plastics
- ✓ Interior Weathering Resistance
- ✓ Anti-slip Property
- ✓ Scratch Resistance





HVAC FLAP SEALS

Product

- G301.A40.B
- G301.A45.B.C
- G301.A60.B
- V101.A35.B
- V101.A47.B
- V101.A60.B

Key Features

- ✓ Low Odor
- ✓ Low VOC Emission
- ✓ Adhesion to Polyolefins and Engineering Plastics
- ✓ Low Compression Set
- ✓ High Temperature Resistance
- ✓ Metal Deactivator Included Grades





Find out more about your
TPE solutions partner now.

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