

ENGI-  
NEERING  
LIFE





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

ENGI-  
NEERING  
LIFE



- 1980** | Establishment and SBS compounding in Turkey
- 1994** | SEBS based TPE compounding
- 1996** | EPDM/PP based TPV series introduced into the market
- 2007** | ISO 9001:2015 and IATF 16949:2016
- 2011** | Qualify the requirements of ISO 14001:2004
- 2013** | Elastron R&D laboratory certified with EN ISO/IEC 17025
- 2018** | New manufacturing plant in Atlanta/USA
- 2020** | Elastron USA certified with ISO 9001:2015
- 2021** | Elastron Turkey certified with ISO 45001:2018 Occupational Health and Safety Management Certificate (OHSAS:18001 since 2018)





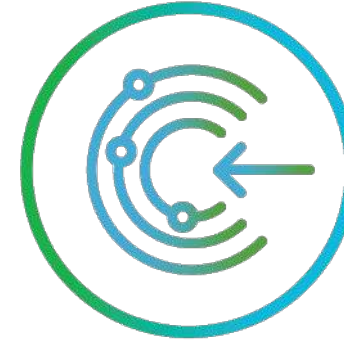
## GLOBAL

Elastron has a global service network that can serve more than 55 countries.



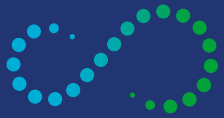
## SOLUTION PARTNERSHIP

Elastron has a business-service partnership philosophy beyond product supply.



## PROACTIVE

Elastron goes beyond the customer's current needs by combining its worldwide product, service and knowledge with its agile structure.



## United States 2023 Production Capacity

Production Line: 2  
Yearly kg: 6,000,000

## Turkey 2023 Production Capacity

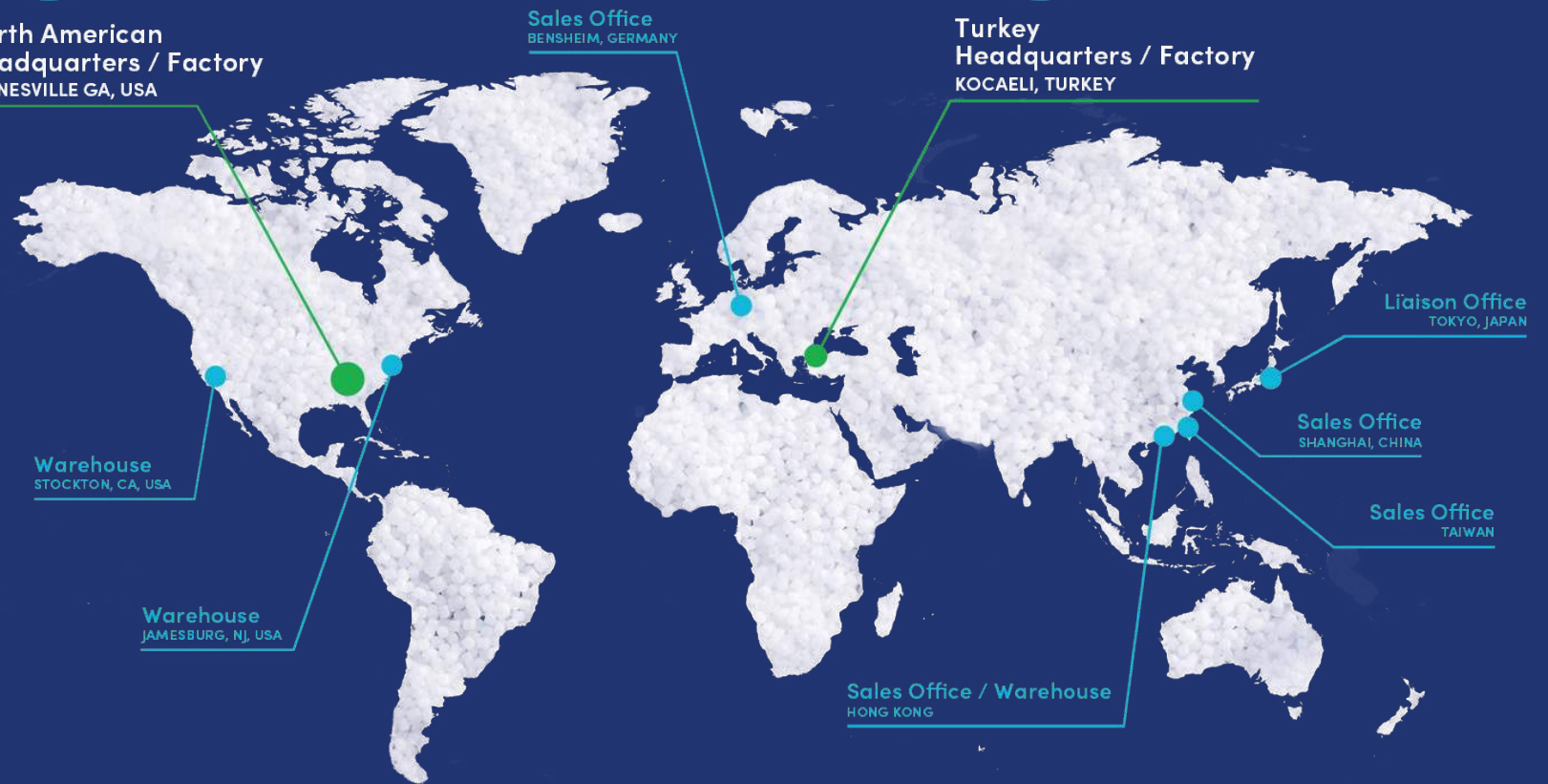
Production Line: 8  
Yearly kg: 40,000,000



North American  
Headquarters / Factory  
GAINESVILLE GA, USA



Turkey  
Headquarters / Factory  
KOCAELI, TURKEY



**+49 Distributors +55 Countries**



## Elastron Team

Department	Number Of People
Production	86
Sales & Marketing	25
R&D	17
Other Departments	24
<b>TOTAL</b>	<b>152</b>





## ELASTRON USA



**ISO 9001:2015**

(The Quality Management System)

## ELASTRON TURKEY



**ATF 16949:2016**

(Quality Management Systems for  
Automotive Industry)



**ISO 9001:2015**

(The Quality Management  
System)



**ISO 14001:2015**

(Environmental Management System)



**ISO 45001:2018**

(Occupational Health and Safety  
Management Certificate)





**+75  
YEARS**

Combined Experience  
of Elastron R&D

## **ELASTRON R&D**

Elastron R&D develops customer-oriented solutions in addition to its high-quality general product line.



### PHYSICAL AND MECHANICAL TESTS

- Hardness: ShoreA or ShoreD
- Density: g/cm<sup>3</sup>
- Tensile Strength: Mpa
- Elongation: %
- Modulus: Mpa
- Tearing: N/mm
- Compression Set: %
- MFI: g/10min
- Flammability: UL 94 (V<sub>0</sub>-V<sub>1</sub>-V<sub>2</sub>-HB)
- Abrasion: mm<sup>3</sup>
- Izod Impact test (ASTM): J/m
- Capillary Rheometer: Pa.s
- Mooney Viscometer (For EPDM)
- Viscometer (For SEBS and Oil)

### COLOR AND GLOSS MEASUREMENT

- Colorimeter
- Glossmeter

### AGING TESTS

- Air Ageing Ovens
- Chemical Test Cabinet (IRM 903, ASTM 1 Oil, Acid, Base, etc.)
- Weatherometer Cabinet (For Arizona & Florida accelerated artificial ageing tests) Atlas Ci 4000
- QUV Accelerated Aging

### EMISSION TESTS

- Fogging measurements
- Odour Tests

### CHEMICAL TESTS

- pH measurement
- Soxhlet Extraction

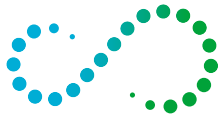
### THERMAL ANALYSIS

- DSC (Differential Scanning Calorimetry)
- TGA (Thermo Gravimetric Analysis)

### SPECTROMETRIC TESTS

- FT-IR (Fourier Transform - Infrared Spectrometer)





Temperature Resistance



Weathering Resistance



Recyclability



Wide Hardness Range



Easy Coloring

	Elastron G	Elastron V	Elastron D
<b>Structure</b>	SEBS/PP based TPE compounds	Crosslinked TPE compounds	SBS/PP based TPE compounds
<b>Hardness (Shore A/D)</b>	12 A - 65 D	30 A - 65 D	20 A - 65 D
<b>Density (g/cm<sup>3</sup>)</b>	Min. 0.88	Min. 0.90	Min. 0.89
<b>Compression Set</b>	Good	Very Good	Medium
<b>Elasticity</b>	High	Very High	Medium
<b>Service Temperature (°C)</b>	-50°C to 120°C	-50°C to 135°C	-50°C to 70°C
<b>Organic Solvent Resistance</b>	Variable	Variable	Poor
<b>Acid-Base Resistance</b>	Good	Good	Good
<b>Adhesion (Standard grades)</b>	PP, PE, EVA	PP, PE, EVA	PP, PE, EVA
<b>Adhesion (Bondable grades)</b>	ABS, PC, PC/ABS, PBT, PETG, ASA, SAN, PMMA, PET, PA6/6.6, PS, HIPS, EPDM	EPDM	PS



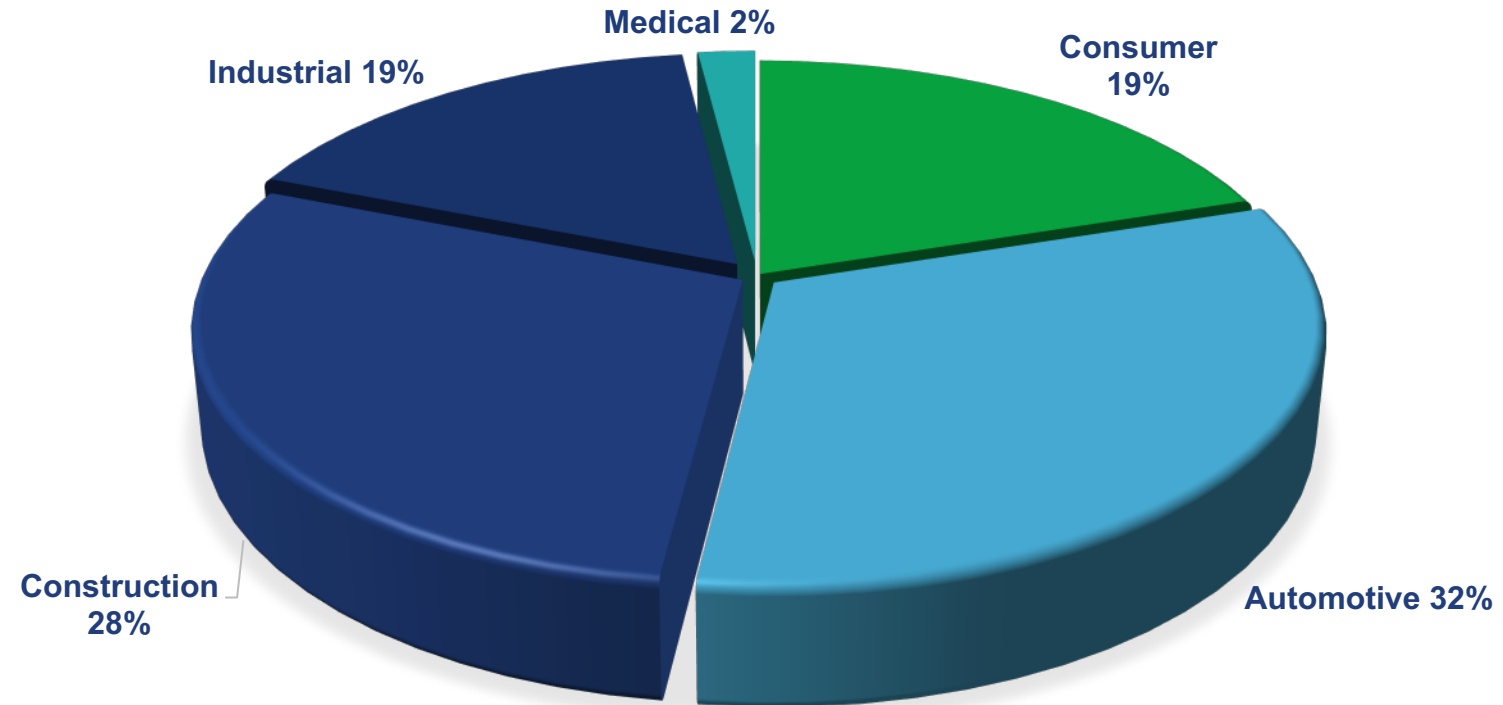
**MARKETS**

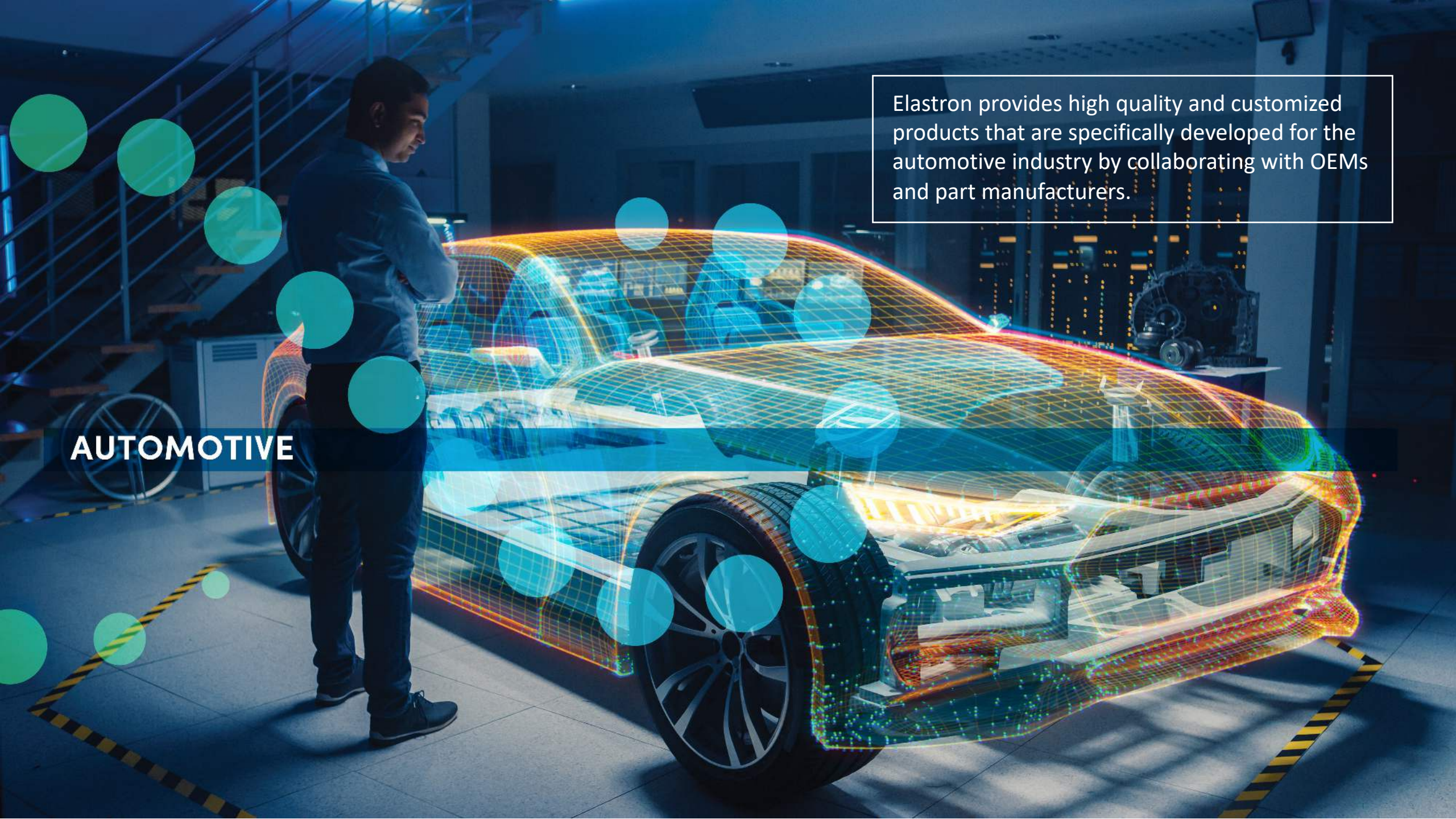




## Market Sales Distribution

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





Elastron provides high quality and customized products that are specifically developed for the automotive industry by collaborating with OEMs and part manufacturers.

**AUTOMOTIVE**



## Segments & Important Applications

### WEATHERSEALS

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

### INTERIOR

- Pad Heel
- Pads & Cup Holders
- HVAC Door Seals
- Floor Mats
- Seat Gaskets
- Glovebox Cover & Housings

### UNDER THE HOOD & CHASIS

- Clean Air Duct
- Suspension Bellows
- Grommets & Plugs
- Fuel Line Hose
- Radiator Seals
- Steering Bellows & Dust Boots
- Mechanism Cable Covers
- Brake Conduit

### EXTERIOR

- Bumper Spoiler
- Wiper Spoiler
- Mud Flaps
- Antenna Bezels
- Wheel Housing Parts
- Fuel Entrance Cover Seal





## Key Features of 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





Elastron offers a wide range of high quality TPE compounds to designers and producers of consumer goods.

**CONSUMER GOODS**



## Segments & Important Applications

### FOOD CONTACT APPLICATIONS

- Food container seals
- Chopping board handles
- Kitchenware grips

### DRINKING AND TAP WATER APPLICATIONS

- Shower hose and head
- Water pump seals
- Water dispenser seals

### SPORT ITEMS

- Bicycle handlebar grips
- Ski poles holders
- Fitness machine protection covers
- Swimming flippers

### FURNITURE

- Bicycle handlebar grips
- Ski poles holders
- Fitness machine protection covers
- Swimming flippers

### PERSONAL CARE

- Toothbrush handles
- Razor grips
- Respiratory box for protective masks

### WHITE GOODS & ELECTRICAL APPLIANCES

- Washing machine suspensions
- Washing machine shock absorbers
- Combi boiler pipe connectors
- Refrigerator gaskets

### HOUSEHOLD GOODS

- Carpet backing
- Houseware grips
- Power and hand tool grips
- Hangers

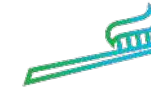
### OFFICE EQUIPMENT

- Pen grips
- Erasers
- Pencil cases

### TOYS

- Pet toys
- Model car wheels
- Stamp peds for kids





## Key Features of Elastron TPE Grades for Consumer Goods Applications

Elastron TPE grades are recyclable, easy to color with masterbatches and have excellent surface appearance. SEBS based TPE compounds can be offered in transparent form.

### GRADES FOR DRINKING WATER

- NSF/ANSI 61 approval
- Hot and cold water contact

### GRADES FOR TOYS, PERSONAL CARE AND SPORT ITEMS

- EN 71-3 compliance
- Skin friendly
- Free of latex, PVC and phthalates
- No use of heavy metals

### FOOD CONTACT GRADES

- Excellent organoleptic results
- Monomers and additives used as raw materials are
  - in compliance with Regulation (EU) No.10/2011
  - in compliance with FDA 21 CFR

### GRADES FOR WHITE GOODS & ELECTRICAL APPLIANCES

- Vibration absorber
- High heat and mechanical resistance
- Resistant to detergents, acids and bases





Elastron medical TPE compounds meet special needs of various medical device applications.

**MEDICAL**



## Segments & Important Applications

### DISPOSABLE MEDICAL GOODS

- Brush of throat swabs

### MEDICAL TIPS & GASKETS

- Infusion bottle caps
- Syringe gaskets
- Medicine bottle caps

### MEDICAL FOOTWEAR

- Antibacterial shoes
- Antistatic hospital clogs
- Hospital clogs

### MEDICAL EQUIPMENT & DEVICES

- Dental guard for bruxism disease
- Medical tubes
- Urine catheter grips





## Key Features of Elastron TPE Grades for Medical Applications

- Permanent antistatic grades available up to  $10^8$  ohm/square
- Selected compounds comply with recognized medical standards
- Availability of translucent compounds
- Free of latex, PVC, phthalates, and heavy metals
- Sterilizable by using common methods
- Good re-sealing properties





Elastron TPE grades designed for construction industry are based on TPV and SEBS based TPE compounds.

**CONSTRUCTION**



## Segments & Important Applications

### WINDOW PROFILE & DOOR SEALS

- Window profile seals (PVC, wooden, aluminum)
- Door seals
- Window profile joint gaskets

### INSULATION APPLICATIONS

- Expansion joint/dilatation gaskets
- Roof drainage seals
- Sealing strips

### WATER INSTALLATIONS & PLUMBING APPLICATIONS

- Waste water pipe seals
- Gaskets for toilets
- Pipe joint gaskets





## Key Features of Elastron TPE Grades for Construction Applications

### WINDOW PROFILE SEAL GRADES

- RAL GZ 716/1 approved
- CSTB QB 36 approved
- Grades capable of foaming are available to reduce the density

### WASTE WATER PIPE SEAL AND PLUMBING GRADES

- EN 681/2 approval
- NSF 14 approval
- ASTM F477 pipe specification compliance
- Consistent dimensional stability



A low-angle photograph of a complex industrial plant, likely a refinery or chemical processing facility. The image is dominated by a dense network of silver-colored pipes, some wrapped in insulation, and a tall, cylindrical distillation column on the left. The structure is supported by a complex steel framework. The sky is a clear, bright blue, and the overall lighting is warm, suggesting a sunny day. Several semi-transparent teal circles of varying sizes are scattered across the image, adding a modern, digital aesthetic. A blue horizontal bar is positioned across the middle of the frame, containing the word 'INDUSTRIAL' in white, bold, sans-serif capital letters.

**INDUSTRIAL**

Elastron provides TPE solutions for different segments which have different technical requirements.



## Segments & Important Applications

### ANTI-SLIP MATS & STRIPS

- Anti-slip mats
- Anti-slip ladder feet
- Building entrance floor mats

### IMPACT MODIFICATION

- For ABS, PA, PC, PE, PP, PS

### CABLES

- Cable insulation
- Cable jacketing

### INDUSTRIAL CASTOR WHEEL

- Hospital trolley wheels
- Industrial castor wheels
- Wheels for supermarket trolley

### ELECTRICAL EQUIPMENT

- Cable connectors
- Multigate for cables
- Plug gaskets
- Grommets for electrical applications

### INDUSTRIAL GASKETS & EQUIPMENT

- RV Gaskets
- Marble polishing gaskets
- Seals for irrigation system
- Clamp gaskets
- Gaskets for HVAC systems





## Key Features of Elastron TPE Grades for Industrial Applications

### CABLE AND ELECTRICAL EQUIPMENT

- Halogen free flame retardant (HFFR) grades
- UL 94 HB / V<sub>0</sub> / V<sub>1</sub> / V<sub>2</sub> listed products
- Low dielectric constant and high oxygen index
- High dielectric strength, surface and volume resistivity
- Low smoke density
- RoHS, ELV and WEEE compliance

### INDUSTRIAL GASKETS & EQUIPMENT

- Non-toxic
- Resistant to chemicals, acids & bases
- Easy to color with masterbatches
- UV and ozone resistance







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NEERING  
LIFE



Find out more about your  
TPE solutions partner now.

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