

ENGI-
NEERING
LIFE

**TPE SOLUTIONS FOR
INDUSTRIAL
APPLICATIONS**





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

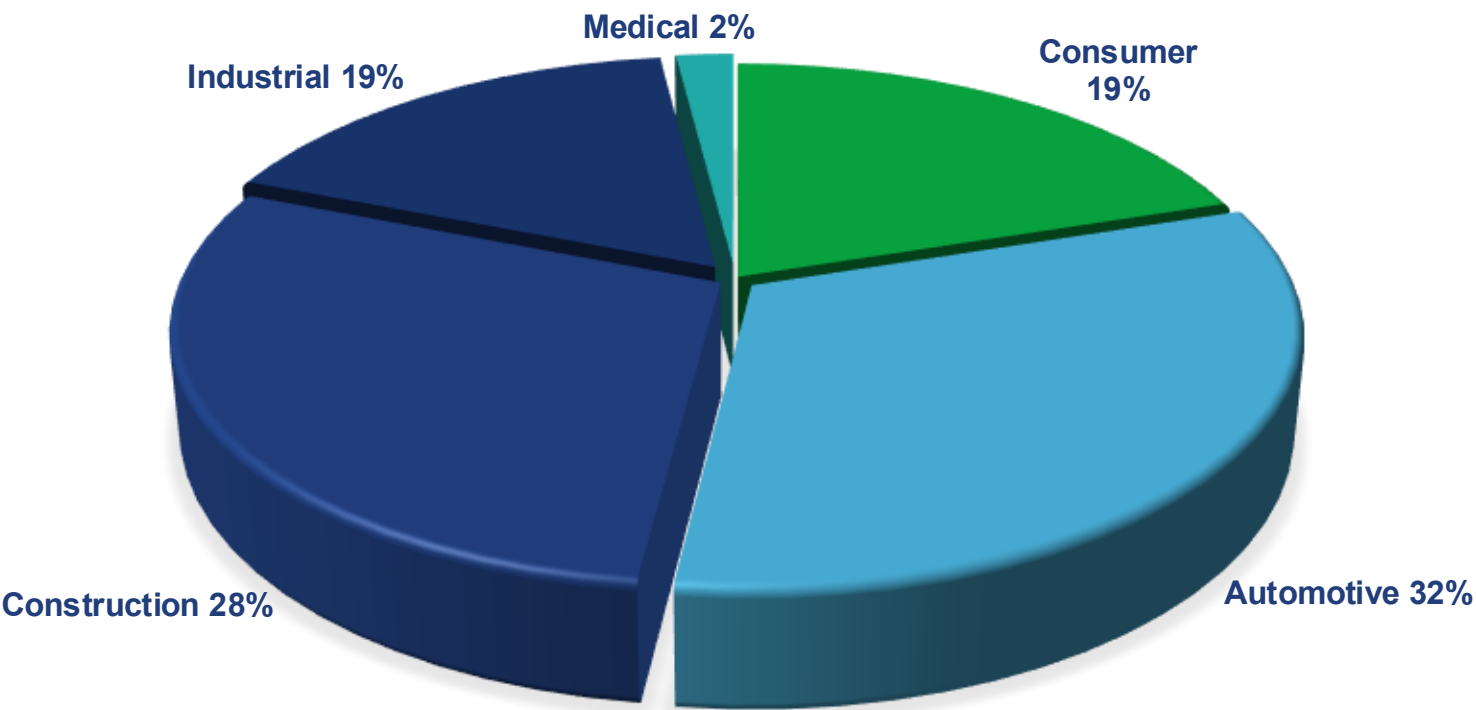


MARKETS



Market Sales Distribution

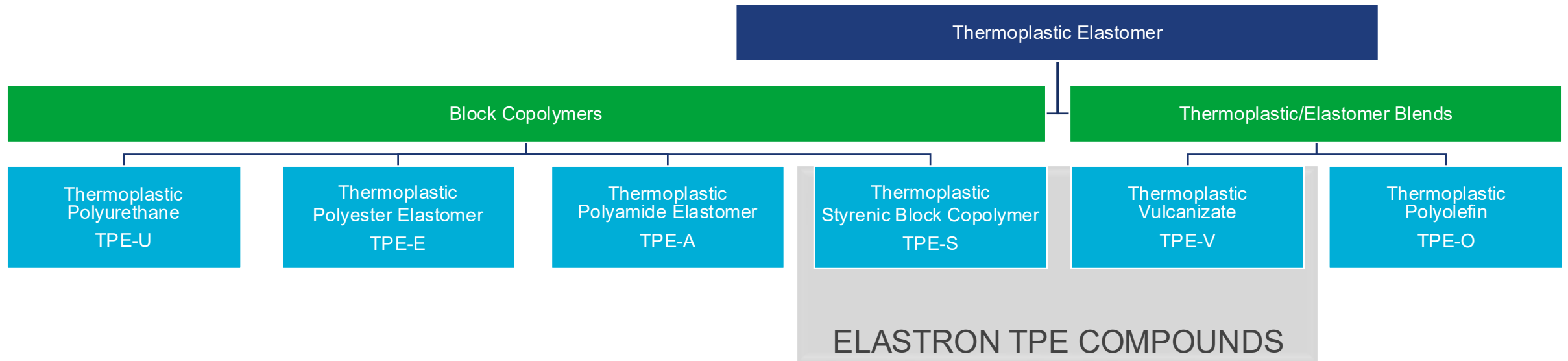
Markets	Percentage Distribution
Automotive	32%
Construction	28%
Consumer	19%
Industrial	19%
Medical	2%





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 equipment.





Easy Coloring



Recyclability



Temperature
Resistance



Weathering
Resistance



Wide Hardness
Range



Flexibility



Elasticity



Recovery

	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
UV Resistance	Good	Good	Poor
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



Product Line

General Purpose Grades

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

High Temperature Resistant Grades

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

Weatherseal Grades

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

High Flow Grades

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

Impact Modifiers for

- PP
- PE
- ABS
- PC
- PS
- PA
- **D100 – D400 Series**
- **G500 Series**

Bondable Grades

- PA, ABS, PC, PS and ABS/PC bondable grades for polar plastics to obtain soft touch property
- **G500 – PA/ABS/PS Series**
- **V510 – G510 – EM Series**

Special Grades Conforming Various Regulations

- NSF/ANSI 61
- EU 10/2011
- FDA 21 CFR
- USP CLASS VI – ISO 10993
- **F.G & F.V series**
- **P.G & P.V series**
- **V281 Series**

Flame Retardant Grades

- UL 94 V0 listed grades
- Low smoke density
- V1 – V2 grades
- HFFR – FR grades
- **G601 – V601 HFFR Series**

Low Coefficient of Friction Grades

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

Non-hygroscopic TPVs

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



Elastron offers a wide range of high quality TPE compounds to designers and producers of industrial applications.

INDUSTRIAL



Elastron TPE Grades for Industrial Applications

Elastron provides TPE solutions tailored for various segments with distinct technical requirements. These include anti-slip performance, flexibility across various temperatures, long-term electrical insulation, low compression set, high sealing performance, abrasion resistance and mechanical stress resistance, making Elastron TPE compounds suitable for diverse applications.

Elastron offers a proven range of TPE technologies in its product portfolio for electrical, wire and cable applications, including flame-retardant options, general-purpose TPVs, and SEBS-based TPEs.

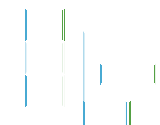
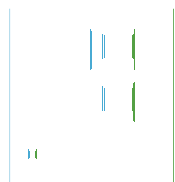
Elastron TPE grades are recyclable, easy to color with masterbatches, and provide an excellent surface appearance.

Additionally, Elastron supplies sustainable and efficient TPE impact modifiers for virgin and recycled plastics, which enhance the impact strength of thermoplastics, adding value to polymers.





Key Features of Elastron TPE Grades for Industrial Applications



Material Properties

- Weight Reduction
- Weathering Resistance
- Good Chemical Resistance
- Abrasion and Scratch Resistance
- Low Dielectric Constant (2,5 - 3,0)
- Dielectric Strength (7 - 30 Kv/Mm)
- High Surface Resistivity
- Low Smoke Density

Design

- Wide Hardness Range
- Glossy Finish to a Matt Aspect
- Natural, Black, Pre-Colored
- Adhesion to Engineering Plastics

Processing

- Single / Multi-Injection
- Extrusion / Co-Extrusion
- Overmolding
- Recyclability
- High Flow Grades
- Short Cycle Time
- Adhesion to Polyolefins and Engineered Plastics
- Lower Energy Consumption
- No Curing Required

Safety & Regulation

- Halogen-Free Flame-Retardant Solutions
- UL 94 Listed
- High Ignition Temperature
- RoHS Conformity

Sustainability

- PIR/PCR Grades
- LCA Data
- High Recycle Content
- In Process Recycability
- Reducing of CO₂ Emission
- Impact Enhancer Solutions for Recycled Materials



Segments & Highlighted Applications

Anti-Slip Mats & Strips

- Anti-Slip Mats
- Bottom Covering of Chair Elevator for Stairs
- Pallet Anti-Strip Strap
- Anti-Slip Ladder Feet
- Anti-Slip Rung Cover for Ladder
- Star Step Anti-Slip Strap

Cables

- Cable Jacketing
- Cable Insulation
- Primary Insulation

Electrical Equipment

- Seals & Gaskets
- Electrical Box Applications
- Multigates & Plugs
- Connectors
- Cable Accessories

Impact Modification

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

Industrial Castor Wheel

- Castor Wheels for Hospital Bed
- Industrial Castor Wheels
- Office Chair Wheels
- Vacuum Cleaner Wheels
- Wheelchair Wheels
- Wheels for Supermarket Trolleys

Industrial Gaskets & Equipment

- Equipment & Machinery
- Outdoor Applications
- Pool Cleaning Robot Parts
- Seals & Gaskets
- Transportation & Mobility





Anti-Slip Mats & Strips

Bottom Covering of Chair Elevator for Stairs

- V601.A70.701

Plastic Pallet Anti-Slip Plug

- V100.A75.N

Key Features

- ✓ Antislip Properties
- ✓ Good Elastic Recovery
- ✓ Adhesion to PP, PE and EVA
- ✓ Soft Touch Feeling





Anti-Slip Mats & Strips

Anti-Slip Ladder Feet

- D300.A77.N
- G101.A58.N
- G400.A90.N

Anti-Slip Rung Cover For Ladder

- G100.A45.N

Key Features

- ✓ Antislip Properties
- ✓ Good Elastic Recovery
- ✓ Suitable Grades for Sheet Extrusion
- ✓ Adhesion to PP, PE and EVA
- ✓ Excellent Surface Haptic

Stair Step Anti-Slip Tape

- G100.A60.B
- G100.A90.B
- G101.A65.B



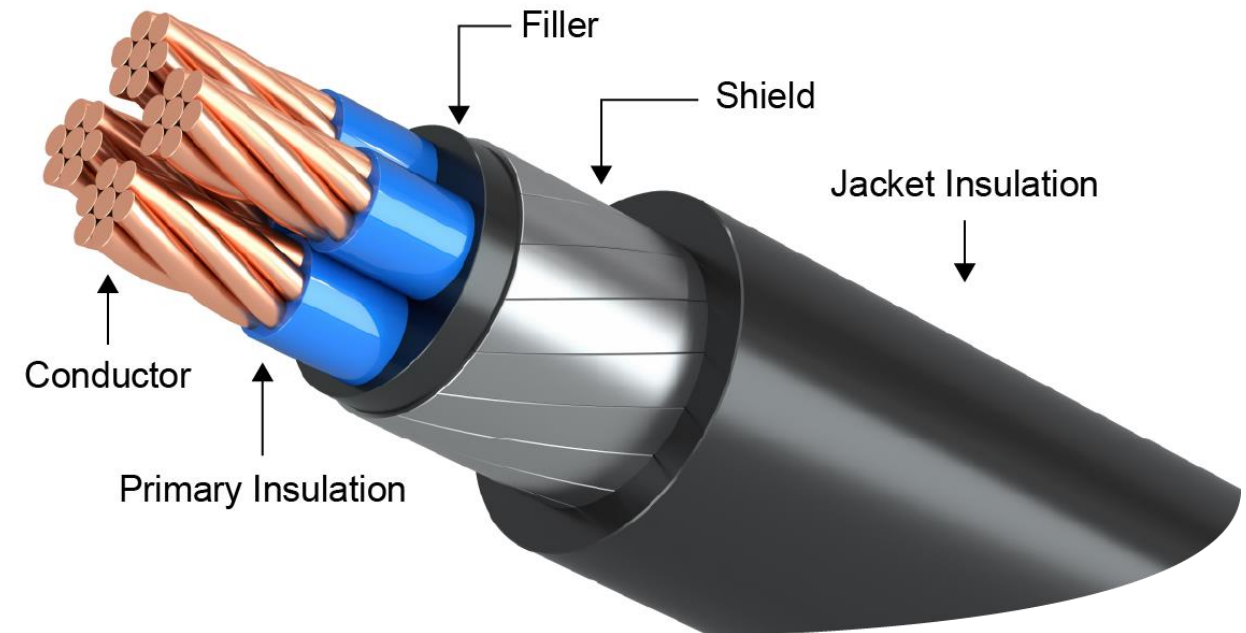


Cables

We offer halogen-free grades for flame-retardant applications, as well as standard grades for non-critical parts of electrical equipment.

Key Features

- ✓ Halogen Free Flame Retardant Compounds
- ✓ V0 Classified Grades at 1,5mm & 3mm
- ✓ UL 94 QMFZ2 Yellow Card UL File Number: E336670
- ✓ Low Dielectric Constant (2.50 - 3.00)
- ✓ Dielectric Strength (7 – 30 Kv/Mm)
- ✓ High Surface Resistivity
- ✓ Low Smoke Density
- ✓ Metal Deactivator Included
- ✓ Easy Processing
- ✓ Smooth Surface
- ✓ Wide Hardness Range (45 ShA - 95 ShA)





Cables

Cable Jacketing

- V101 Series
- V201 Series
- V601 Series
- G101 Series
- G601 Series

Primary Insulation

- G101.A73.N.C
- G601.A70.N.C

Cable Insulation

- V601.A90.B
- V201.A65.B

Key Features

- ✓ Halogen Free Flame Retardant Compounds
- ✓ Metal Deactivator Included
- ✓ Easy Processing
- ✓ Smooth Surface
- ✓ Lower Abrasion





Electrical Equipment

Plugs

- G100.A85.701
- G500.A80.B.ABS
- V601.A80.N
- V601.A90.N

Fire Alarm Button

- G100.A75.N

Key Features

- ✓ Good Elastic Recovery
- ✓ Smooth Surface
- ✓ High Temperature Resistance
- ✓ Flame Retardant Grades
- ✓ UL 94 V0 Yellow Card





Electrical Equipment – Electrical Box Applications

Cone for Electrical Box

- G150.A75.N

Seal for GPS Box

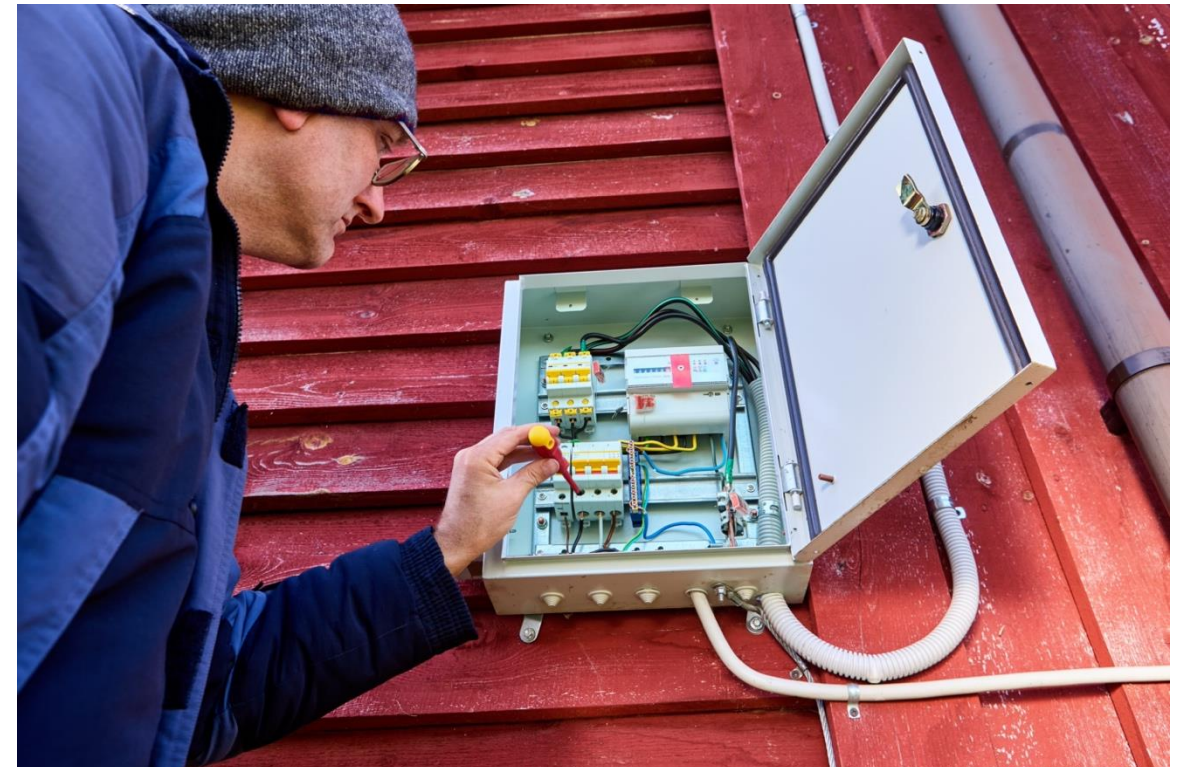
- G400.A65.N
- G500 ABS Bondable Series

Seal for Electrical Box

- G500.A30.N.PA
- G400.A12.N

Key Features

- ✓ High Flow Grades
- ✓ Excellent Sealing Property
- ✓ Bondability to Engineering Plastics (PA, ABS, ABS/PC)





Electrical Equipment – Multigates & Plugs

Multi Plug & Lid Seal

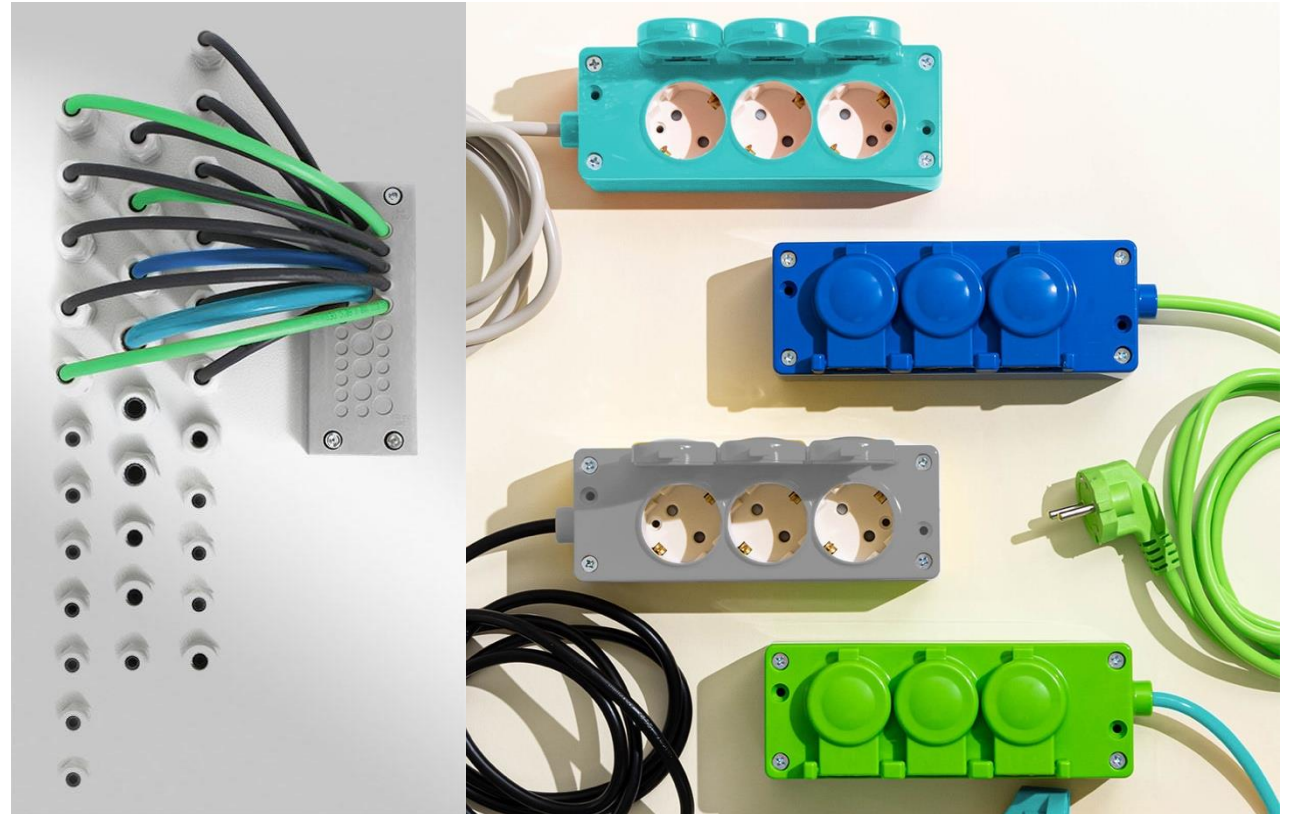
- G100.A60.N
- G300.A85.N

Multigate

- G300.A50.N.S
- G601.A70.B

Key Features

- ✓ Durability
- ✓ Good Elastic Recovery
- ✓ Easy Processing
- ✓ Low Shrinkage
- ✓ Flame Retardant Grades





Electrical Equipment – Connectors

Connector Seal

- G500.A40.B.ABS
- G500.A30.B.PA
- V201.A40.B
- V201.A80.B
- V601.A93.B
- G100.A60.B
- G500.A55.N.PA
- V601.A70.N
- V901.A91.B

Battery Pole Connector Cover

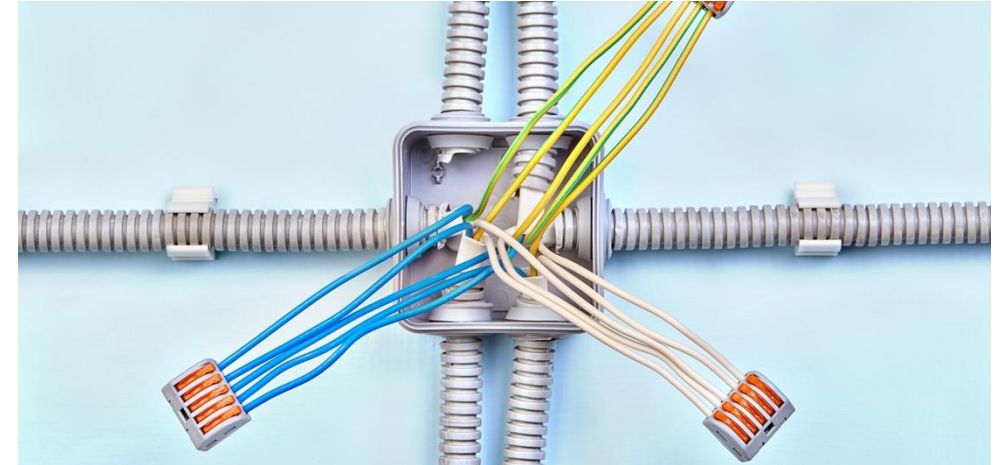
- V250.A64.B.C

Junction Connector

- G400.A45.N
- G400.A50.N
- V601.A60.B

Key Features

- ✓ Metal Deactivator Included
- ✓ Bondability to Engineering Plastics
- ✓ Flame Retardant Solutions
- ✓ High Heat Resistance





Electrical Equipment – Cable Accessories

Cable Connector

- G100 Series
- G101.A30.N
- G400.A70.B
- G601.A50.B
- V100.A60.B
- V101.A50.B
- V101.A65.N

Cable Cover

- V601.A60.B

Key Features

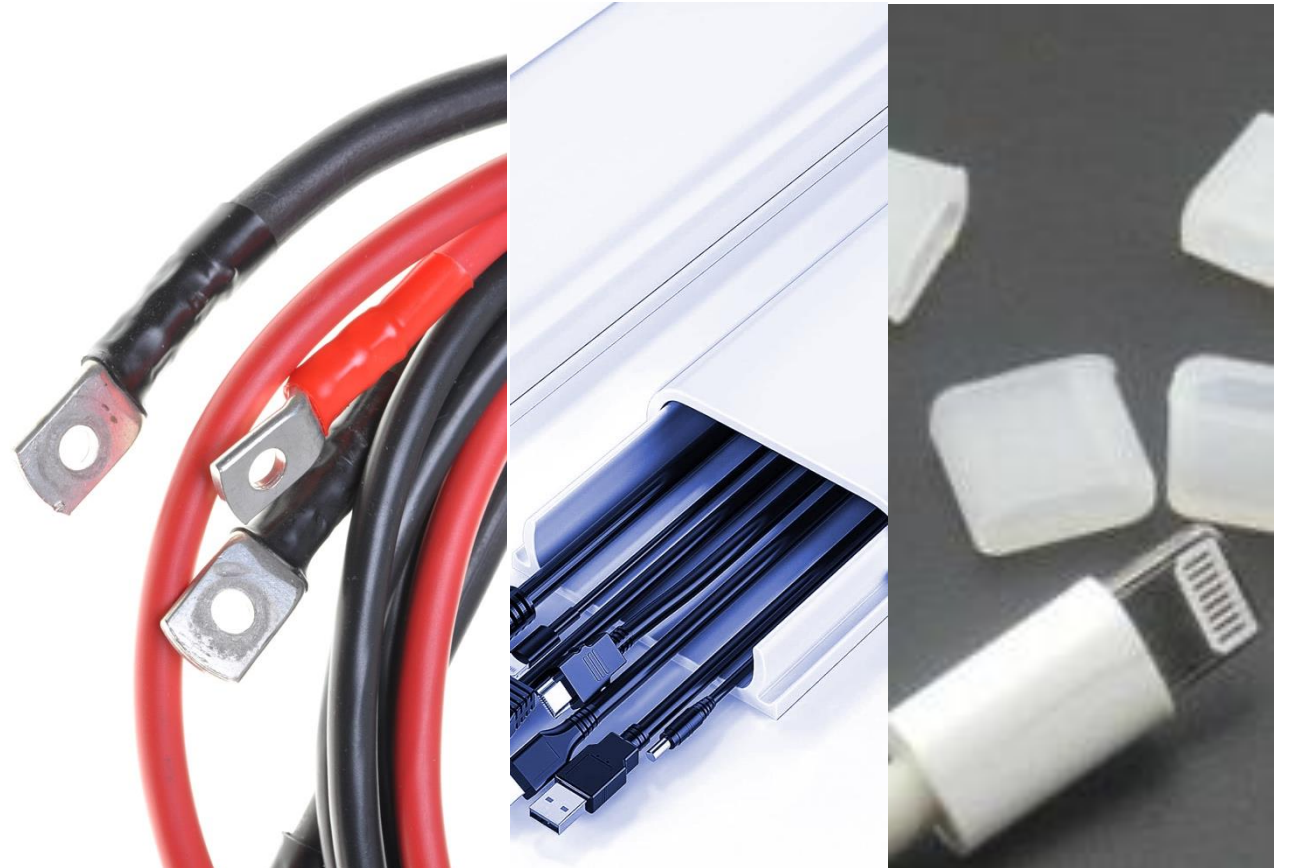
- ✓ Metal Deactivator Included
- ✓ Flame Retardant Grades
- ✓ UL 94 Listed
- ✓ High Flow Grades

Battery Pole Cable

- V201.A70.B.C
- V601.A65.B.C

Cable Port Dust Cover

- D100.A40.B
- G251.A70.B
- G601.A45.N





Impact Modifier

Impact Modifier for PP

- D100.A20.N
- D100.A22.N
- D100.A40.N
- D400.A53.N

Impact Modifier for PE

- D400.A35.N
- D400.A53.N

Impact Modifier for ABS

- D400.A30.N
- G501.A40.N

Impact Modifier for PC

- G400.A12.N
- G501.A40.N

Impact Modifier for PS

- D100.A20.N
- D100.A22.N
- D100.A30.N
- D400.A30.N

Impact Modifier for PA

- G500.A23.N.PA

Key Features

- ✓ Compatibilization
- ✓ Improved Processing
- ✓ Improved Impact Resistance
- ✓ Low Temperature Impact Resistance
- ✓ Improved Flexibility
- ✓ Improved Durability
- ✓ Improved Toughness
- ✓ Enhanced Flexibility





Castor Wheel

Industrial Castor Wheel

- G100.A75.N
- G101.A73.B
- G300.A85.N
- G400.A80.N
- V201.A87.N
- V101.A85.B

Castor Wheels for Hospital Bed

- G401.A82.N

Office Chair Wheels

- G500.A85.B.PA

Wheelchair Wheel

- G500.A85.B.PA

Wheels for Supermarket Trolley

- V101.A84.501
- V101.A86.702

Vacuum Cleaner

- G100.A60.N
- G100.A80.B
- V101.A79.B

Key Features

- ✓ Abrasion Resistance
- ✓ Adhesion to PP, PE and EVA
- ✓ Adhesion to PA
- ✓ No Staining on Floor
- ✓ High Flow Grades





Industrial Gaskets & Equipment – Machinery

Air Suction Hose

- G301.A65.B
- V101 Series

Rail Vibration Gasket

- G400.A80.N

Conveyor Belt Gasket

- V101 Series

Key Features

- ✓ Suitable for Extrusion
- ✓ Suitable for Co-Extrusion
- ✓ High Temperature Resistance
- ✓ Good Elastic Recovery





Industrial Gaskets & Equipment – Machinery

Industrial Button & Button Cover

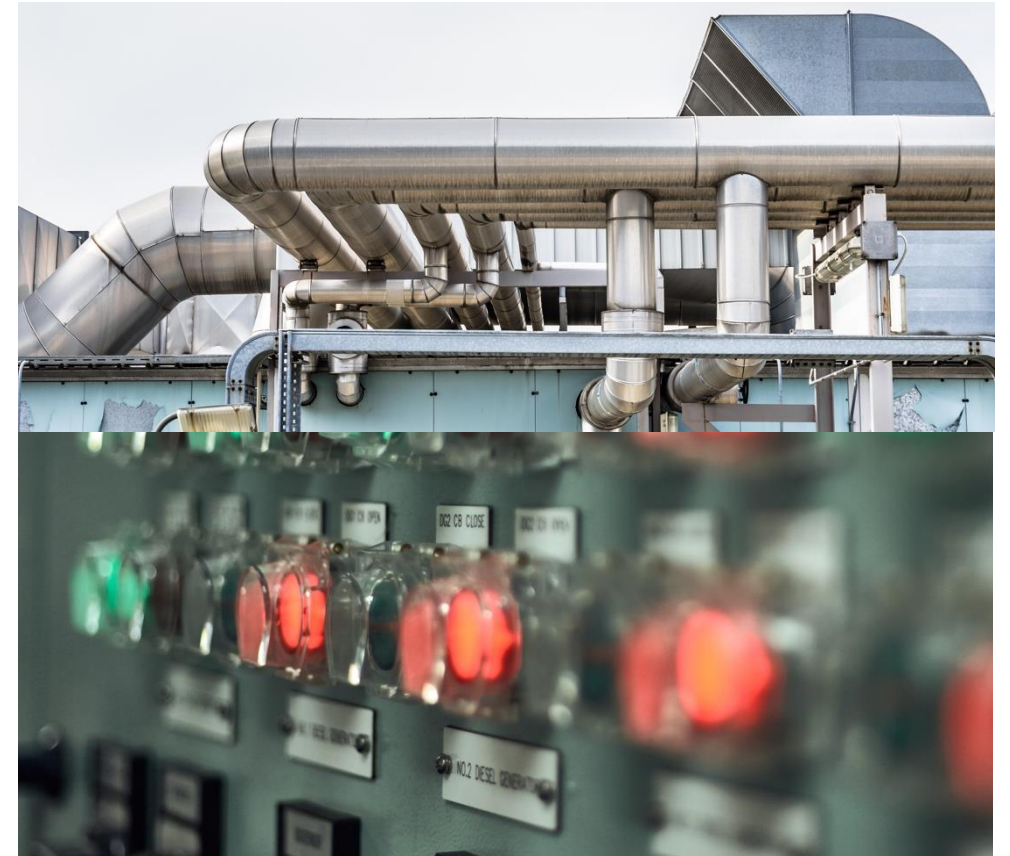
- G601.A60.N
- G100.A80.B
- G500.A45.B.ABS
- G300.A50.N
- V101.A35.N

Gasket for HVAC Systems

- D100.A40.N
- G101.A45.N
- G301.A60.B

Key Features

- ✓ Antislip Properties
- ✓ Good Elastic Recovery
- ✓ Adhesion to Polyolefins
- ✓ Adhesion to Engineering Plastics
- ✓ Excellent Sealing Properties





Industrial Gaskets & Equipment – Outdoor

Rebar Caps

- G100.A20.N
- G400.A40.N.S
- G100.A55.709

Bollard Cap

- G250 Series

Solar Panel Seal

- V101.A35.N
- V101.A65.N

Streetlight Gasket

- G100.A21.N
- V101.A35.N

Key Features

- ✓ Weathering and UV Resistance
- ✓ Low Compression Set
- ✓ Good Elastic Recovery





Industrial Gaskets & Equipment – Pool Cleaning Robot Parts

Pool Cleaner Bumpers

- G101.A45.N
- V101.A72.N

Pool Cleaner Device Seal

- G100.A60.B
- V101.A35.N

Pool Cleaner Fitting

- G100.A60.N
- G100.A75.N
- G400.A79.N

Pool Cleaner Head

- V101.A79.N

Pool Cleaner Robot Wheel

- V100.A55.B
- V100.A75.B
- V101.A65.N
- V101.A79.N

Pool Cleaner Tip

- G100.A75.N
- G400.A65.N

Traction Belt for Pool Cleaner

- V101.A35.N

Key Features

- ✓ Chemical Resistant to Aqueous Solutions
- ✓ Good Elastic Recovery





Industrial Gaskets & Equipment – Seals & Gaskets

Filter Gasket

- G100 Series
- G400.D56.N
- V101.A55.B
- V101.D40.B
- P.V101.D40.N

Seal for Irrigation System

- G100.A30.N
- G400.A65.N
- V100 & V101 Series

Triangle Pad for Reverse Osmosis System

- G100.A90.N
- V281.A87.N

Key Features

- ✓ Low Compression Set
- ✓ Chemical Resistant
- ✓ Good Elastic Recovery
- ✓ Good Chemical Resistant
- ✓ Adhesion to Polyolefins
- ✓ NSF/ANSI 61 Listed





Industrial Gaskets & Equipment – Seals & Gaskets

Grill Plate Gasket

- G100.A50.N
- V100.A85.N

O-Ring Seal

- F.G401.A60.N
- G100 & G101 Series
- V101 Series

Key Features

- ✓ Adhesion to Polyolefins
- ✓ Low Compression Set
- ✓ Good Elastic Recovery
- ✓ Vibration Damping

Marble Polishing Pad

- G100.A30.B
- G100.A35.N





Industrial Gaskets & Equipment – Transportation & Mobility

Car Roof Rack Anti-Slip Strip

- G103.A80.B

Elevator Car Buffer

- G100.A65.B
- G100.D43.B

Transportation Air Pillow Valve

- G100.A40.N

Yacht Gasket (Marine)

- G101.A58.N
- G101.A65.B

Key Features

- ✓ Good Chemical Resistance to Salty Water
- ✓ Weathering and UV Resistance
- ✓ Excellent Sealing Properties





Industrial Gaskets & Equipment – Transportation & Mobility

RV Gasket

- G311.A35.B
- G311.A40.B
- V101.D40.B
- G101.A90.B
- V101.A90.B

Key Features

- ✓ Good Chemical Resistance
- ✓ Good Elastic Recovery
- ✓ Excellent Weathering and UV Resistance
- ✓ Low Compression Set for Effective and Long-term Sealing





Industrial Gaskets & Equipment – Seals & Gaskets

Clamp Gasket

- G100.A90.N
- G100.A21.N
- G100.A65.B

Key Features

- ✓ Sound & Vibration Absorber
- ✓ Easy Processing





Find out more about your
TPE solutions partner now.

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