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THE TPE EXPERTS

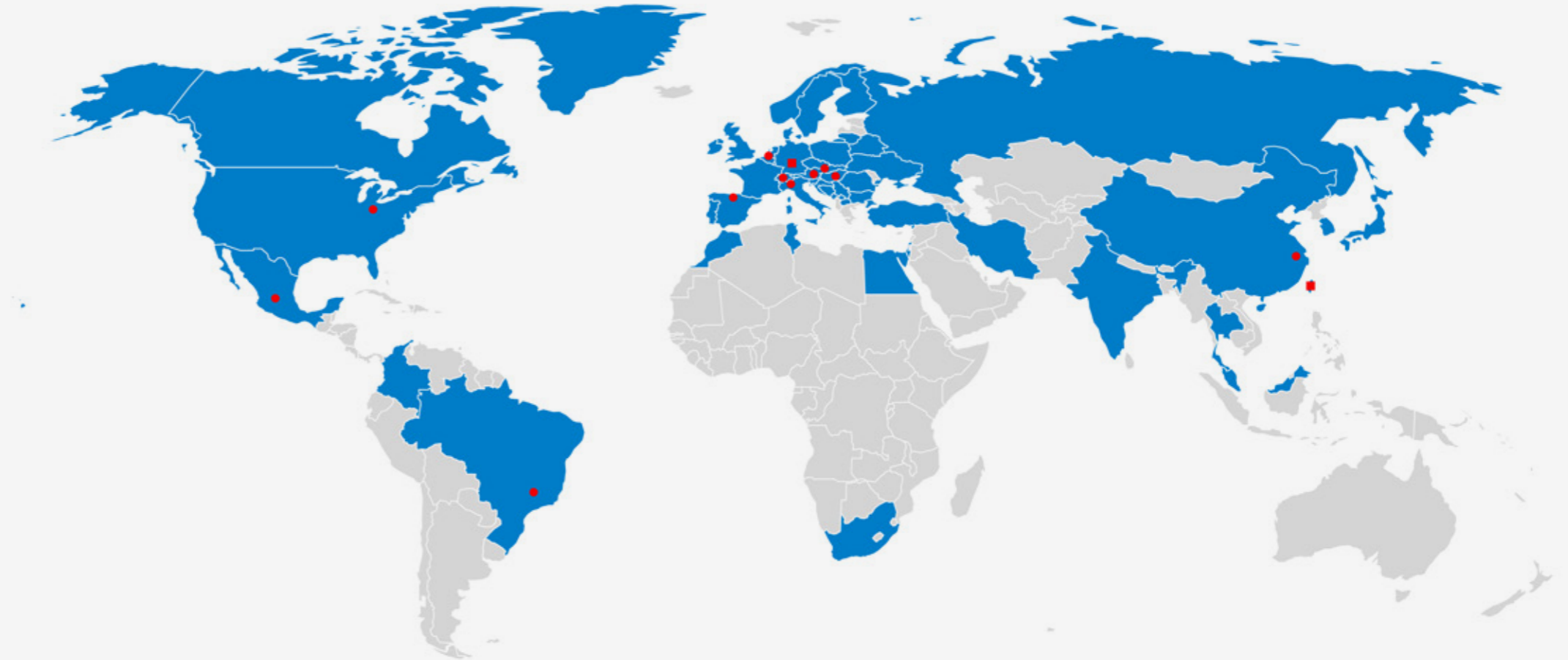


ALLRUNA®



ALLOD INTERNATIONAL

With headquarters in Germany, ALLOD is an international compounding corporation for TPE and other highly specialized compounds. In order to better serve our Asian customers, we opened a production plant in Taiwan and an office in Ningbo in 2016. We opened a warehouse in Mexico in 2021.



Our brand name ALLRUNA® is used in different applications areas worldwide.

- Production sites
- Locations
- Countries of sale



Development and production of specialized TPE

Thermoplastic elastomers (TPE) are used in various fields in the plastic industry. High-performance products often require specially tailored material development and close cooperation with customers. Our staff has decades of experience and a global presence within international markets, making ALLOD an exceptionally flexible partner in material development and production.

APPLICATION OF ALLRUNA®

We offer established standard compounds for general applications alongside our specialized developments. Moreover, our thermoplastic elastomers possess a wide processing range and cover multiple application areas.

Automotive Exterior

- GRC corner molding
- End cap
- Water deflector
- Window encapsulation
- Pillar cover
- Cowl
- ...



Automotive Interior

- Pad
- Thumb wheel
- Gasket
- Grommet
- Grip
- Cup holder
- Soft touch
- Anti-pinch
- ...



Consumer & Industry

- Grip
- Gasket
- Soft touch
- Protection equipment
- Membrane
- Pipe
- ...



Regulatory Standards

- VW 50123, TL 52662, DBL 5562, GS 93042, GMW 16233
- Ford WSS M2D505-A2, WSS M2D517-A2, WSS M2D510-A7
- Food regulation (FDA, (EU)No 10/2011, GB 4806.7)
- Medical regulation ISO 10993
- RoHS & Reach
- UL 94 HB, UL 94 V0



HIGH-QUALITY PP ADHESION TPE FOR VARIOUS APPLICATIONS

Series	Hardness	Color	Processing
W - S 313	20A - 50D	Black	Injection molding, Extrusion
W - S 213	20A - 50D	Natural	
W - S 113	20A - 50D	Translucent	



Characteristics

- Excellent UV resistance
- Outstanding PP & TPV adhesion
- Easy flow
- Chemical resistance
- Superior surface finish
- Minimal odor
- Colorable
- Recyclable

Modification

- Improved flow
- Enhanced compression set
- Coloring, transparent
- Food regulation compliance
- Oil-free
- Extremely soft - low on Shore 00 Scale
- Antifungal
- Foamed

Application

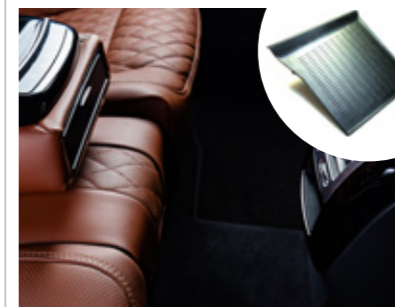
Automotive Exterior PV 3929 / PV 3930 two cycles

- GRC corner molding
- Window encapsulation
- End cap
- Water deflector
- Gasket
- Cowl
- ...



Automotive Interior PV 1303 5 cycles

- Pad
- Grommet
- Gasket
- Plug
- ...



Consumer & Industry

- Grip
- Gasket
- Soft touch
- Pipe
- Protection layer
- ...





LUBRICATED PP ADHESION TPE WITH LOW COEFFICIENT OF FRICTION

Series	Hardness	Color	Processing
W - S 379	30 - 90A	Black	Injection molding,
W - S 279	30 - 90A	Natural	Extrusion

Characteristics

- Excellent UV resistance
- Outstanding PP & TPV adhesion
- Easy flow
- Superior surface finish
- Low COF
- Scratch-resistant
- Minimal odor
- Colorable
- Recyclable

Modification

- Improved flow
- Enhanced compression set
- Coloring
- Food regulation compliance
- Antifungal
- Foamed



Application

Automotive Exterior

- GRC corner molding
- Window encapsulation
- End cap
- Gasket
- ...



Automotive Interior

- Mat
- Gasket
- Plug
- ...



Consumer & Industry

- Grip
- Gasket
- Soft touch
- Protection equipment
- ...





EPDM ADHESION TPE WITH SUPERIOR UV RESISTANCE

Series	Hardness	Color	Processing
WT - S 315	50 - 80A	Black	Injection molding

Characteristics

- Superior UV resistance
- Excellent bonding to EPDM & TPV
- Good surface finish
- Minimal odor
- Recyclable

Application

- GRC corner molding
- End cap
- ...

Modification

- Improved flow
- Lubricated

ABS, PC, PMMA ADHESION TPE WITH SUPERIOR UV RESISTANCE

Series	Hardness	Color	Processing
W - U 355	50 - 80A	Black	Injection molding

Characteristics

- Superior UV resistance
- Excellent bonding to ABS, PC, PC/ABS, PMMA, ASA, etc.
- Easy flow
- High-quality surface finish
- Recyclable

Application

- A, B, C, D pillar
- Water deflector
- Triangle window cover
- End cap
- ...

ABS, PC, PET, SAN Adhesion TPE with Excellent Bonding Strength



Series	Hardness	Color	Processing
W - E 315	40 - 70A	Black	Injection molding, Extrusion
W - E 215	40 - 70A	Natural	Injection molding, Extrusion

Characteristics

- Good UV resistance
- Excellent adhesion to ABS, PC, PC/ABS, ASA, PBT, PET, POM, etc.
- Minimal odor
- Wide processing temperature window
- Colorable
- Recyclable

Application

- Gasket
- Grip
- Soft touch
- Plug
- ...

Modification

- Enhanced compression set
- Improved flow
- Transparent
- Food contact regulation compliance
- Antifungal

Series	Hardness	Color	Processing
W - U 313	30 - 70A	Black	Injection molding, Extrusion
W - U 213	30 - 70A	Natural	Injection molding, Extrusion

Characteristics

- Good surface
- Excellent adhesion to ABS, PC, PC/ABS, ASA, PMMA, etc.
- Economical
- Colorable
- Recyclable

Application

- Grip
- Soft touch
- ...

Modification

- Improved flow
- Coloring



Characteristics

- Excellent adhesion to PA6, PA 66, up to 50% glass fiber
- Excellent adhesion to PA12, PA11
- Good flow
- Colorable
- Wide processing temperature window
- Recyclable

Application

- Power tool grips
- Gasket for white goods
- Soft touch
- ...

Modification

- Improved compression set
- Coloring
- Antifungal
- ...

PA ADHESION TPE WITH SUPERIOR BONDING STRENGTH

Series	Hardness	Color	Processing
W - A 381	30 - 70A	Black	Injection molding, Extrusion
W - A 281	30 - 70A	Natural	

TPE WITH RECYCLED RAW MATERIAL SOURCE

Series	Hardness	Color	Recycled content	Processing
W - R 313	50A - 50D	Black	Up to 40%	Injection molding
W - R 213	50A - 50D	Natural	Up to 40%	



Characteristics

- Superior PP adhesion
- UV-resistant
- Great mechanical properties
- Recyclable

Application

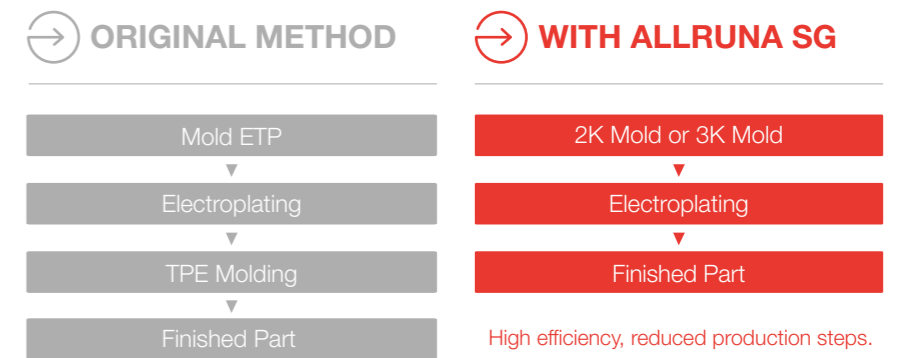
- Automotive exterior / interior
- Grip
- Soft touch
- Plug
- ...



SPECIALITY MATERIALS WITH EXCELLENT PROPERTIES

SELECTIVE ELECTROPLATING TPE

This series is suitable for bonding to engineering thermoplastics. TPE maintains its original appearance during electroplating without affecting the electroplating process.



→ Characteristics

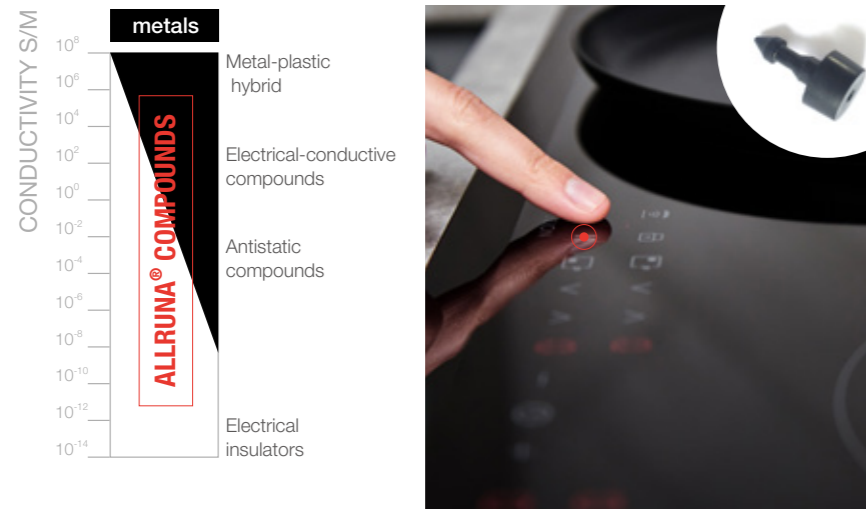
- Adhesion to PC, ABS, PC/ABS
- Colorable

→ Application

- Grip
- Soft touch
- Thumb wheel
- ...

ELECTRICAL CONDUCTIVE TPE

Electrical Conductive TPE has a specific resistance from 5 to $10^{10} \Omega \cdot \text{cm}$



Processing

- Injection molding
- Extrusion

Characteristics

- Low electrical resistance
- Good mechanical properties

Application

- Anti-pinch for automotive use
- Electronic
- Switch
- ...

HIGH-TEMPERATURE RESISTANCE MATERIALS FOR CAR BODY PLUGS

ALLRUNA car body plugs material is developed especially for this application.



Processing

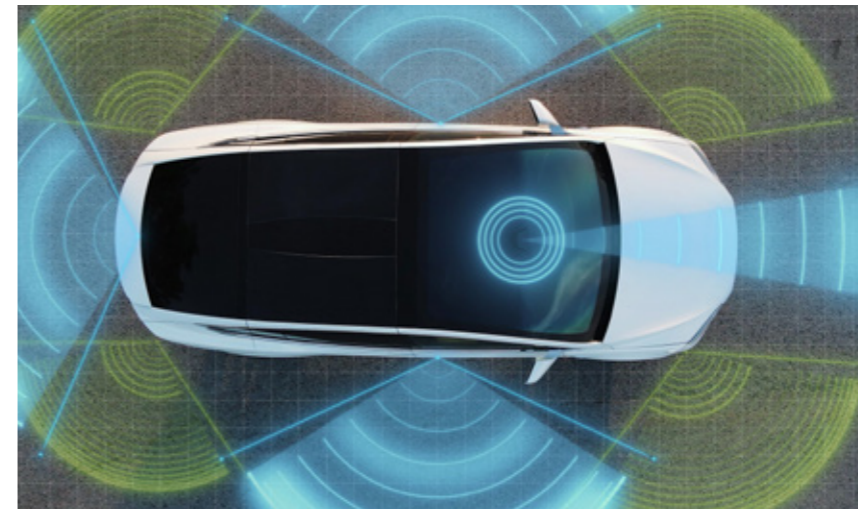
- Injection molding

Characteristics

- Temperature resistance
- Metal adhesion possible
- Up to 200 °C

PTC MATERIAL

ALLRUNA PTC materials use a unique compound with a Positive Temperature Coefficient effect. These materials have a low electrical resistance, providing a fast heating speed and temperature stability.



Processing

- Injection molding
- Extrusion

Characteristics

- Reliable heating cycle
- Good heating efficiency
- Safety
- Flexible design
- Energy efficient

Application

- Heating system
- Sensor housing
- De-icing
- ...

