



EN

Thermoplastic
elastomers

TPE-S, TPO and TPU
compounds

GOTER^{spa}
THERMOPLASTIC COMPOUNDS



OUR COMPANY

One Goal: Customer satisfaction.

Goter Thermoplastic Compound is a world industrial leader company **born in Italy (Abruzzo)**. With over 30 years of experience and high-quality standards, it provides a prompt response to every customer needs, a qualified staff, and a great technical and trade-related assistance.

In order to support our customers globally, the Italian headquarters was joined by an additional production site in China (Gomec-Guangdong) since 1994.

Our TPE compounds: customized solutions for your needs.

The company began its activity producing TPE for footwear. The range of products was extended year after year approaching markets like **construction, sporting goods, household articles, engineering, appliances, automotive, hand tools, synthetic turf infill etc.** Goter Thermoplastic Compound has always invested in research, better equipment, and team training, **developing new TPE-S, TPO and TPU compounds.**

The company conquered the worldwide market producing over 300 tons per day and improving its global commercial network. However the company's difference lays in the continuous investments in environmentally friendly and cutting-edge chemicals and technology.

Our cornerstones: sustainability, quality and responsiveness.

All our products are covered by the **ISO 9001:2015** standards for the thermoplastic development, production, and sale.

We are socially and environmentally conscious, like the **ISO 14001:2015** standard shows. Our latest photovoltaic plant installation allowed us to reduce up to 90% the electricity consumption.

In line with the company's sustainability projects, since 2022 we have been offering our customers high-performance TPEs compounds based on Post-industrial recycled TPE. These compounds can currently be certified **GRS 4.0** and **ISO 14021:2016**.

STANDARDS AND CERTIFICATIONS

Uncompromising quality...

In order to guarantee the highest quality to our customers GOTER adopts requirements from internationally recognized management system standards, including those from the International Standards Organization (ISO) and the Global Recycled Standard (GRS) .

...also on our TPEs with post-industrial scraps

Managing our recycled TPE with reference to certifications such as ISO 14021 and GRS 4.0 allow us to offer to our customers several TPE compounds with significant percentages of post-industrial scraps, the final TPE compound can be formally certified with a complete traceability starting from the waste up to the finished new TPE compound.



Our cornerstones:
sustainability, quality and responsiveness

SPORTING GOODS & FOOTWEAR INDUSTRY

The thermoplastic elastomers have a great price-performance ratio if compared to other polymers; the absence of PVC, the excellent outdoor resistance, the easy processability, the multiple hardness available (between 5 ShA and 50 ShD), a wide aesthetic versatility and compliance with the existing legislation related to health and safety both for the customer and the environment, confirm that Thermoplastic elastomers like TPE-S, TPO and TPU are the best materials for many sports items and the footwear industry. Thanks to the wide range of raw materials and our internal know-how, we can create several customized compounds fitting any specific customer request.

- 1** Diving fins
- 2** Anti-vibration items/mats
- 3** Ski boots
- 4** Rollerblades
- 5** Handles & grips
- 6** Snow boots
- 7** Bike saddles
- 8** Autoclavable antistatic clog
- 9** Shoe soles

BUILDING & CONSTRUCTIONS

Our TPEs offer excellent characteristics for the building & construction market: thermal and electrical insulation, excellent elastic recovery, UV and outdoor resistance. Some examples of successful applications are gaskets for doors and windows, seals for electrical boxes, fittings for pipes, drainage system connectors, grips for floating floors, infill for synthetic grass, protective shock-proof bumpers, grips for ladders, grips for tools, body protections etc.

- 1** Gaskets for doors & windows
- 2** Infill for synthetic grass
- 3** Gaskets for showers
- 4** E&E boxes
- 5** Grips for ladders
- 6** Body protections



ENGINEERING & INDUSTRIAL

Thanks to our experience in both SEBS/SBS and TPU based compounds, we can offer customized formulations suitable for industrial uses with adhesion on polar materials (ABS, PC and PC/ABS) and PA; the above maintaining excellent mechanical characteristics and abrasion resistance even with hardness lower than 70 ShA.

As examples we can mention: conveyor belts, co-extruded sheets, impact resistance improvement of ABS and PS, overmoulding on PA for grips and handles, overmoulding for protective covers, wheels for industrial trolleys, etc.

- 1** Conveyor & timing belts
- 2** Hand tools & power tools
- 3** Electrical devices protective cases
- 4** Industrial wheels



HOUSEHOLD ARTICLES

Thanks to our thermoplastic elastomers' versatility, we can produce appropriate materials both for extrusion and injection moulding, cleaners-resistant, with a great compression set (i.e. elastic behavior). TPE has a great price-performance ratio, being the best material for various applications, thanks also to the possibility to customize several features.

The key points to produce everyday products are the absence of harmful elements for both the end users and the environment, the 100% recyclability and the availability of grades suitable for food contact applications.

- 1** Bath/shower mat
 - 2** Gaskets for toilet flush
 - 3** Bed suspensions
 - 4** Appliances
 - 5** Hangers and clips
 - 6** Broom and cleaning tools
 - 7** Seals for food boxes
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OUR TPE
PORTFOLIO
HAS ALREADY
SUCCESSFUL
COMMERCIAL
FORMULATIONS
AVAILABLE FOR:

- Applications with low friction
- Applications with adhesion to PA
- Sealing applications with adhesion to PP
- Applications with long flow paths and complex shapes
- Applications of consumer daily life with adhesion to PP
- Extrusion applications with excellent UV and chemical resistance
- Applications with flame retardant requirements up to UL 94 V-0
- Applications with adhesion to polar plastics like ABS, PC and PC/ABS
- Applications with food contact in accordance with EU and FDA standards
- Applications with lightness and recyclability, TPEs with a density of 0,50 g /cc
- Applications with Certified ISO 14021 or GRS 4.0 recycling content TPEs with PIR content



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Material	Features	Hardness [Shore A]	Density [g/cm ³]	Tensile Stress [MPa]	Elongation at break [%]	Tear Strength [N/mm]
TS EX 30-90A F ST4	Filled extrusion grade	30 - 90	1,17	2,5-12,5	900-650	10,0-50,0
TS EX 30-90A M ST4	Medium filled extrusion grade	30 - 90	1,00	3,0-13,0	950-700	12,0-52,0
TS EX 30-90A P UV	Translucent extrusion grade	30 - 90	0,88	3,5-13,5	1000-750	14,0-55,0

Our extrusion grades are available also with the following features:

- FC (food contact)
- LF (very low flow)
- LUB (low friction-lubricated)
- FR (flame retardant)
- AB (antimicrobial)
- TQ (improved compression set)

Material	Features	Hardness [Shore A]	Density [g/cm ³]	Tensile Stress [MPa]	Elongation at break [%]	Tear Strength [N/mm]
TS IM 30-90A F ST	SEBS Filled injection grade	30 - 90	1,17	2,0-8,5	800-500	9,0-28,0
TS IM 30-90A M ST	SEBS Medium filled injection grade	30 - 90	1,00	2,5-9,0	850-550	9,5-30,0
TS IM 30-90A P ST	SEBS Translucent injection grade	30 - 90	0,88	3,0-10,0	900-550	10,0-35,0
TS IM 30-90A F PR	SBS/SEBS Filled injection grade	30 - 90	1,17	1,8-7,0	800-450	6,0-26,0
TS IM 30-90A M PR	SBS/SEBS Medium filled injection grade	30 - 90	1,00	2,0-8,0	800-500	9,0-28,0
TO IM 30-50D M ST	TPO Medium filled injection grade	30 - 50 *	1,00	5,0-16,0	800-500	25,0-45,0
TO IM 30-50D P ST	TPO Low density injection grade	30 - 50 *	0,88	10,0-22,0	1000-700	30,0-50,0

Our injection moulding grades are available also with the following features:

- FC (food contact)
- AB (antimicrobial)
- AST (antistatic)
- FR (flame retardant)
- LUB (low friction-lubricated)
- TU (adhesion onto polar materials)
- HF (very high flow)
- US (hardness lower than 30 ShA, down to 5 ShA)
- PA (adhesion onto PA)

(*) = [Shore D]





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