

More than value

SILON

TABOREN[®] COMPOUNDS



— Your ever GREEN

OUR SUCCESSFUL HISTORY MAKES US A LEADER TODAY

1950 — 2025

On the market since 1950

40 years of experience in compounding

100 000 t of production capacity

SILON designs, produces and sells polyolefin-based performance compounds for applications in the construction and automotive industries, for hygiene and general applications. The SILON global group supplies its products to more than 30 countries worldwide. Production plants are located in the Czech Republic and in the USA (Georgia).

The TABOREN® product range is an extensive portfolio of polyolefin-based compounds filled with mineral and fibrous fillers. We have been successfully offering **TABOREN® compounds** on the market since 1984, when they were specially developed for the new model of the Czech Škoda Favorit brand. Since then, TABOREN® materials have gained a strong position in the

automotive sector and have gradually found their application in other industrial branches as well – in construction, and in the food and consumer industries.

Our experts have extensive experience working in the contract compounding field. They are always ready to help you develop new compounds, and to cooperate in innovations and outsourcing new products.

We value and care for long-term relationships. Many of our customers have been with us for more than 20 years. TABOREN® materials occupy an important place on the Czech plastics market and are also included in a number of applications of many European manufacturers.

TABOREN® POLYOLEFIN COMPOUNDS WITH MINERAL AND FIBROUS FILLERS

DESIGNED FOR

- injection moulding
- blow moulding
- extrusion

TABOREN® compounds are based on PP homopolymer or copolymer matrices which could be mixed with other polymers (HDPE, LLDPE, POE, PB, EVA, EBA, etc). The most used types of fillers are talc, glass fibres, limestone and barium sulphate, but we can also use basalt, mica, silica, wollastonite and various combinations of the above.

Their excellent processing properties go hand in hand with balanced mechanical characteristics, which can be improved by the addition of a number of stabilising components, which contribute even greater added value to these compounds.



TABOREN® PP + talc

Talc is the most widely used filler used in the biggest number of applications. The maximum filler content of our compounds is 70%.

≤70%

TALC



TABOREN® PP + glass fibre

We are able to fill PP with glass fibres up to 40%. Our materials feature excellent mechanical properties and heat resistance. We also offer special grades with high MFI and very low OC emissions.

≤40%

GLASS FIBRE



TABOREN® PP + barium sulphate

Barium sulphate is a specific filler used for compounds used for the production of „silent“ pipes. Maximum filler content is 75%.

≤75%

**BIARIUM
SULPHATE**



TABOREN® PP + limestone

Limestone is used for the production of cheap compounds with lower demands on mechanical properties. The maximum filler content is 75%.

≤75%

LIMESTONE

CUSTOMIZED RECYCLING SOLUTIONS



We own advanced recycling technology with 9,600 tons of new capacity – tailored exactly to your needs.



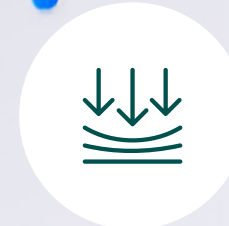
TABOREN® BENEFITS



HIGH CHEMICAL
RESISTENCE



GOOD PROCESSING
PROPERTIES



EXCELLENT BALANCE
BETWEEN STIFFNESS
AND IMPACT STRENGTH



GOOD
UV RESISTENCE



HIGH HEAT
RESISTENCE



EXCELLENT
RECYCLABILITY



FATIGUE
RESISTANCE



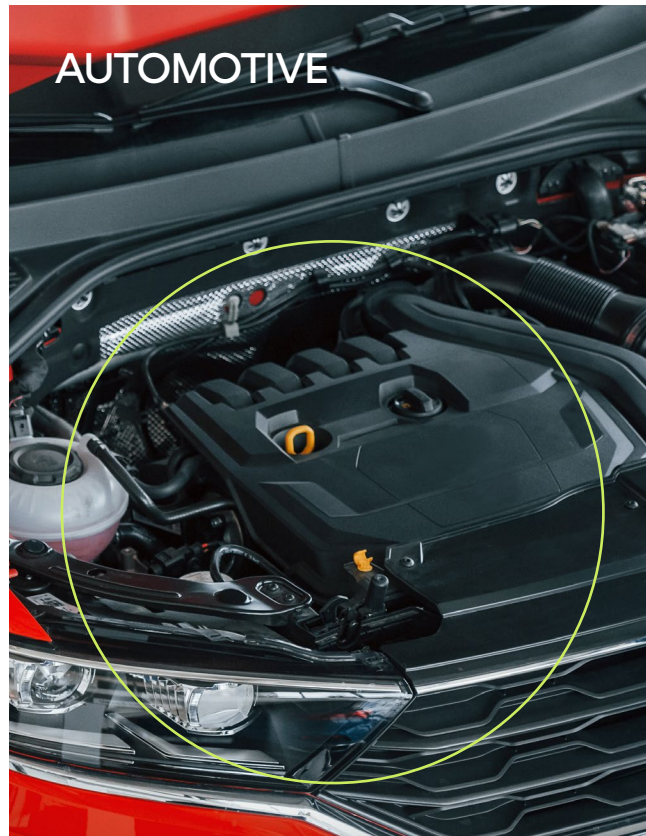
SOUND INSULATION
PROPERTIES



LOW OC
EMISSION

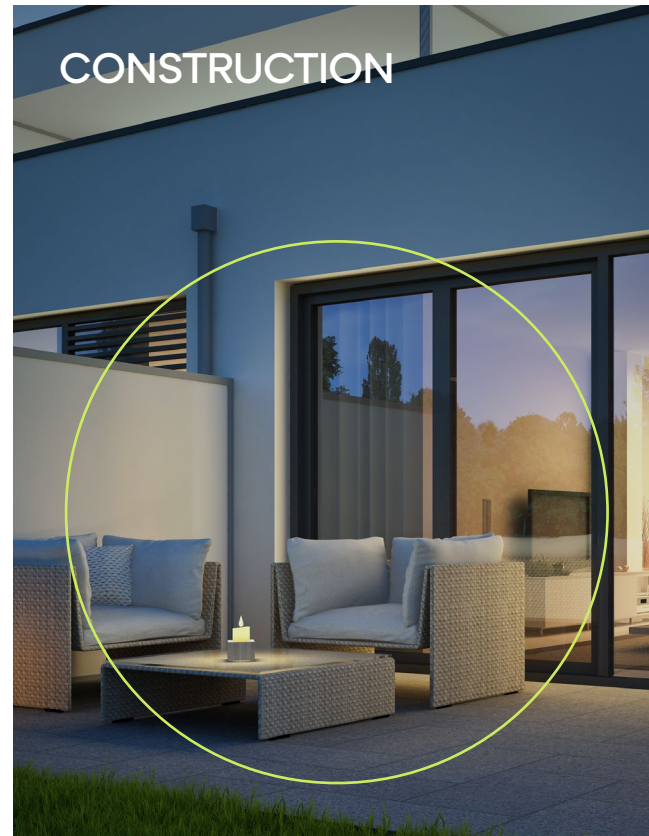


APPLICATIONS



AUTOMOTIVE

Due to its outstanding mechanical and processing properties, more than 50% of the TABOREN® production is used in the automotive industry. Our materials are mostly used for functional technical applications like underbonnet parts, air ducting, window opening systems, extruded door shafts, locks, dashboard parts, flexible hoses, water channels. All applications fulfil the demanding automotive standards.



CONSTRUCTION

TABOREN® compounds are used for the production of multilayer pressure pipes, technical parts for agricultural building systems (cowsheds, pig sheds), technical parts used in industrial buildings, stadium seating, breathable film compounds, insulation underroof layers, furniture parts, silent pipes, etc.



CONSUMER PRODUCTS

TABOREN® is also used in household applications as parts of electric kitchenware or other technical products used in our everyday lives.



OTHER APPLICATIONS

TABOREN® compounds filled with talc and glass fibres are a reliable choice for the production of furniture parts.



TABOREN[®]

AUTOMOTIVE APPLICATIONS

Polyolefin compounds filled with mineral and fibrous fillers used for injection moulding, extrusion and blow moulding (PP-T, PP/PE-T, PP-EPDM-T, PP-GF etc.)

INTERIOR PARTS

EXPOSED

- Cockpit

HIDDEN

- Window profiles
- Under-dashboard parts
- Door systems

UNDER-BONNET PART

- Covers
- Battery tray
- Cable housing
- Air ducting

NOVELTY

- Recycled bumpers



EXTERIOR PARTS

- Channels (between the bonnet and the windshield)
- Exterior door laths

MATERIAL	POLYMER	FILLER	% OF FILLER	MFI * [g/10 min.]	STABILIZATION
TABOREN-PC 23 T 20-064	PPC	talc	20	1,3	UV
TABOREN-PC 29 T 30-001	PPC	talc	30	0,9	AOX
TABOREN-PC 33 T 30-066	PPC	talc	30	1,5	UV
TABOREN-PC 39 T 30-003	PPC	talc	30	1,5	AOX
TABOREN-PC 59 O 00-037	PPC	-	0	11	AOX
TABOREN-PC 62 G 20-071	PPC	glass fibre	20	8	AOX
TABOREN-PC 69 G 20-046	PPC	glass fibre	20	8	AOX
TABOREN-PC 69 G 40	PPC	glass fibre	40	10	AOX
TABOREN-PC 73 T 20-074	PPC	talc	20	10	UV
TABOREN-PC 73 T 20R-047	PPC	talc	20	13	UV
TABOREN-PC 75 O 00-035	PPC	-	0	13	AOX/UV
TABOREN-PH 41 G 30-095	PPH	glass fibre	30	5	BASIC
TABOREN-PH 49 G 30	PPH	glass fibre	30	6	AOX
TABOREN-PH 49 G 30-026	PPH	glass fibre	30	6	AOX
TABOREN-PH 49 G 30-045	PPH	glass fibre	30	5	AOX
TABOREN-PH 51 G 20	PPH	glass fibre	20	6	BASIC
TABOREN-PH 52 G 20-094	PPH	glass fibre	20	5	AOX
TABOREN-PH 59 G 40-011	PPH	glass fibre	40	4	AOX
TABOREN-PH 63 T 20-092	PPH	talc	20	7	UV
TABOREN-PH 79 G 20-029	PPH	glass fibre	20	10	AOX
TABOREN-PH 79 T 20-018	PPH	talc	20	15	AOX
TABOREN-PH 82 T 20	PPH	talc	20	18	BASIC
TABOREN-PH 82 T 40-014	PPH	talc	40	14	BASIC
TABOREN-PH 82 T 40-062	PPH	talc	40	14	BASIC
TABOREN-PH 89 C 40-074	PPH	limestone	40	17	AOX
TABOREN-PH 89 G 15-041	PPH	glass fibre	15	16	AOX
TABOREN-PH 89 T 20-075	PPH	talc	20	15	AOX
TABOREN-PM 29 T 20-004	PPC/PPH	talc	20	1,6	AOX
TABOREN-PM 29 T 20-027	PPC/PPH	talc	20	1,6	AOX
TABOREN-PM 39 T 30-040	PPC/PPH	talc	30	1,6	AOX
TABOREN-PM 73 T 20-044	PPC/PPH	talc	20	13	UV
TABOREN-PR 21 O 00	PPC/POE	-	0	0,5	BASIC
TABOREN-PR 22 T 10-4	PPC/POE	talc	10	0,6	BASIC
TABOREN-PR 29 T 30	PPC/POE	talc	30	0,6	AOX
TABOREN-PR 29 T 30-082	PPC/POE	talc	30	0,6	AOX
TABOREN-PR 58 T 20-011	PPC/PE	talc	20	19	AOX/UV
TABOREN-PR 65 T 10S-089	PPC/PE	talc	10	13	AOX/UV
TABOREN-PR 73 O 00-053	PPC/POE	-	0	18	UV
TABOREN-PR 73 T 10S-094	PPC/POE	talc	10	12	UV
TABOREN-PR 75 T 30-098	PPC/POE	talc	30	11	AOX/UV

* 230°C / 2,16 kg

TABOREN[®]

CONSTRUCTION APPLICATIONS



MATERIAL	POLYMER	FILLER	% OF FILLER	MFI * [g/10 min.]	STABILIZATION
TABOREN-PC 22 B 70	PPC	barium sulphate	70	0,8	BASIC
TABOREN-PC 22 G 15	PPC	glass fibre	15	1	BASIC
TABOREN-PC 22 G 20-B	PPC	glass fibre	20	0,8	BASIC
TABOREN-PC 26 O 00	PPC	-	-	0,5	FR
TABOREN-PC 32 G 20	PPR	glass fibre	20	1	BASIC
TABOREN-PC 42 B 35	PPC	barium sulphate	35	1,7	BASIC
TABOREN-PC 42 B 35-630	PPC	barium sulphate	35	1,7	BASIC
TABOREN-PC 55 H 20-851	PPC	glass fibre / talc	20	5	AOX/UV
TABOREN-PC 55 T 20	PPC	talc	20	4	AOX/UV
TABOREN-PC 55 T 20-833	PPC	talc	20	4	AOX/UV
TABOREN-PC 59 C 40	PPC	limestone	40	5	AOX
TABOREN-PC 59 C 40-883	PPC	limestone	40	5	AOX
TABOREN-PC 73 G 15-A	PPC	glass fibre	15	10	UV
TABOREN-PH 22 B 25	PPH	barium sulphate	25	1	BASIC
TABOREN-PH 41 C 40	PPH	limestone	40	3	BASIC
TABOREN-PH 41 G 30	PPH	glass fibre	30	6	BASIC
TABOREN-PH 41 G 30-062	PPH	glass fibre	30	5	BASIC
TABOREN-PH 42 T 20-969	PPH	talc	20	4,5	BASIC
TABOREN-PH 42 T 20-990	PPH	talc	20	4,5	BASIC
TABOREN-PH 43 T 20-009	PPH	talc	20	3	UV
TABOREN-PH 51 G 40	PPH	glass fibre	40	6	BASIC
TABOREN-PH 52 C 70	PPH	limestone	70	6	BASIC
TABOREN-PH 52 G 30-073	PPH	glass fibre	30	5	BASIC
TABOREN-PH 69 T 40-991	PPH	talc	40	9	AOX
TABOREN-PH 81 C 30	PPH	limestone	30	20	BASIC
TABOREN-PP 5001 GF	PPH	glass fibre	20	2	BASIC
TABOREN-PT 53 H 30	PPH/POE	talc / limestone	30	8,5	UV
* 230°C / 2,16 kg					

CONSUMER PRODUCTS AND OTHER APPLICATIONS

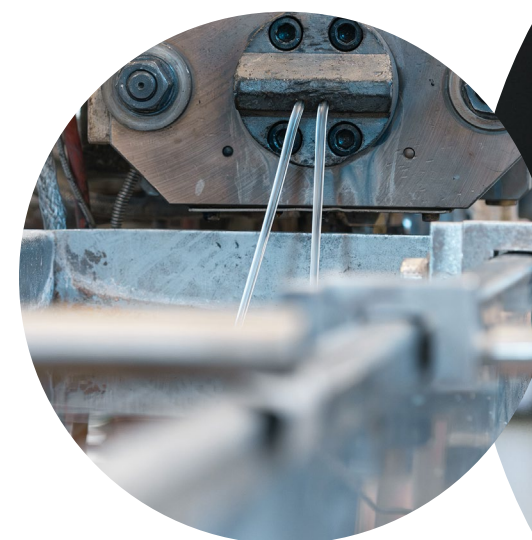


MATERIAL	POLYMER	FILLER	% OF FILLER	MFI * [g/10 min.]	STABILIZATION
TABOREN-PC 23 T 20-980	PPC	talc	20	0,8	UV
TABOREN-PC 41 G 30	PPC	glass fibre	30	5	BASIC
TABOREN-PC 51 G 20	PPC	glass fibre	20	10	BASIC
TABOREN-PC 51 G 30	PPC	glass fibre	30	10	BASIC
TABOREN-PC 51 G 30-020	PPC	glass fibre	30	10	BASIC
TABOREN-PC 51 G 40-635	PPC	glass fibre	40	11	BASIC
TABOREN-PC 59 C 40	PPC	limestone	40	5	AOX
TABOREN-PC 72 G 10	PPC	glass fibre	10	10	BASIC
TABOREN-PC 72 T 20	PPC	talc	20	13	BASIC
TABOREN-PH 41 C 40	PPH	limestone	40	3	BASIC
TABOREN-PH 41 G 30	PPH	glass fibre	30	6	BASIC
TABOREN-PH 51 G 20	PPH	glass fibre	20	6	BASIC
TABOREN-PH 52 T 60	PPH	talc	60	5	BASIC
TABOREN-PH 72 T 20-2	PPH	talc	20	14	BASIC
TABOREN-PH 72 T 40	PPH	talc	40	11	BASIC
TABOREN-PH 81 C 30	PPH	limestone	30	20	BASIC
TABOREN-PH 82 T 20	PPH	talc	20	18	BASIC
TABOREN-PH 89 T 20-2	PPH	talc	20	18	AOX
* 230°C / 2,16 kg					

RESEARCH IS THE HEART OF OUR DEVELOPMENT

R&D lies at the heart of our business. The SILON Group Competence Center, located in the Czech Republic, is a modern R&D facility that aims to boost innovation and enhance our customer support. Our extensive knowledge and understanding of client needs lies at the heart of successful long-term partnerships. Our technical experts help us in choosing the best products for your specific needs and can support you in developing your technical process needs.

The Research and Development Center includes



FACILITIES

- Compounding line for small-scale production and sampling
- Laboratory extruder
- Autoclave chamber, helping customers to find optimal curing cycle
- Laboratory kneader mixer

DEVICES

- DSC (Differential Scanning Calorimetry)
- SEM (Scanning Electron Microscope)
- OCS (Optical Control System)
- Rotational Rheometer
- HPLC (High Performance Liquid Chromatography)
- Universal testing machine for mechanical properties
- FTIR (Fourier-Transform Infrared Spectroscopy)
- TGA (Thermogravimetric Analyzer)
- XRF (X-ray Fluorescence)
- GC-MS (Gas Chromatography–Mass Spectrometry)
- UV-VIS
- Karl Fischer Titration

MEASUREMENT METHODS

- LOI (Limiting Oxygen Index)
- Gel content (Crosslinking Level of Final Product)
- TOC content (Total Organic Carbon Content)
- MFI (Melt Flow Index)
- OIT (Oxidative Induction Time)
- Additives and stabilizers
- Water concentration in material
- Density
- Material Aging
- Hot set test





Get in touch with us



1950 — 2025

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**International
Certifications**

IATF 16949:2016
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
CGMP Compliance



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