MAK SOHAR

CHEMICAL INDUSTRIES (FZC) LLC

Thermoplastic Elastomers

ABOUT US

MAK Sohar Chemical Industries LLC specializes in high-performance **Thermoplastic Elastomer (TPE)** compounds designed for a wide range of applications. Our TPE compounds combine the properties of rubber with the processing advantages of thermoplastics, offering excellent flexibility, durability, and recyclability.

MAKTPS

where your search ends

TPEs are a class of versatile materials that combine the characteristics of rubber with the processability of plastics.

They offer excellent flexibility, durability, and recyclability, making them a preferred choice for a wide range of applications. Unlike traditional rubber, **TPEs** can be molded, extruded, and reused, providing an eco-friendly and cost-effective solution.

MARKET-ORIENTED APPROACH

Our TPE solutions are designed to give you a competitive edge with benefits such as:

Soft-Touch Feel & Comfort

Ideal for consumer products requiring ergonomic grip and aesthetics.

High Chemical & UV Resistance

Ensuring longevity in outdoor and industrial applications.

Environmentally Friendly

100% recyclable and free from hazardous substances.

Adaptability Across Industries

Suitable for automotive, healthcare, electronics, and more.

Cost-Effective Processing

Lower cycle times and enhanced productivity for manufacturers.

APPLICATIONS

Automotive

Found in seals, gaskets, interior components, vibration dampeners, cable insulation, and under-the-hood parts.

Agriculture

Used in irrigation systems, seals, protective coatings, and animal care products.

Consumer Goods

Applied in soft-touch grips, toys, footwear, wearables, household items, and appliance components.

Food Packaging

Utilized in sealing rings, flexible lids, bottle caps, grip-enhanced packaging, and food-safe tubing.

Construction

Used for window/door seals, roofing membranes, expansion joints, pipe fittings, and tool grips.

Industrial Applications

Found in machine parts, hoses, vibration dampeners, protective coverings, and conveyor belts.

KEY FEATURES Of Our TPE Compounds

Flexibility & Softness
Provides a comfortable and ergonomic feel.

Lightweight
Reduces overall product weight without compromising strength.

Recyclability
Environmentally friendly and can be reused, reducing waste.

Wide Hardness Range
Available in Shore A 30 to 60, suitable for soft to semi-rigid applications.

Durability & Resilience
Withstands repeated stretching and bending.

Chemical & Weather Resistance
Performs well under extreme conditions.

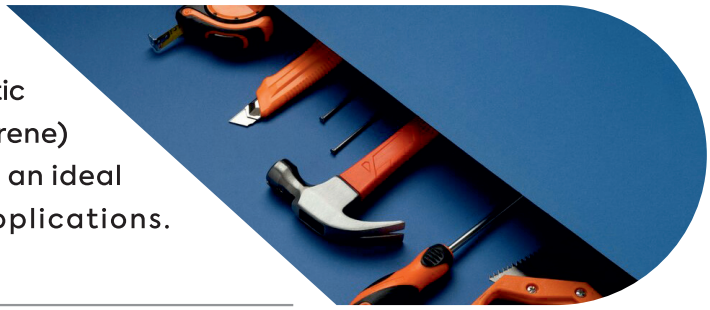
Easy Processing
Can be injection molded, extruded, and thermoformed with effciency.

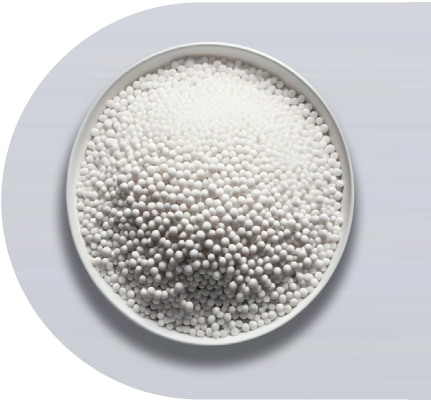
Multi-Material Bonding TPE
Provides superior adhesion to ABS, PC, PP, and PS substrates, enabling durable co-processed solutions that replace mechanical fasteners. Ideal for automotive, electronics, and consumer goods applications requiring reliable material bonding.

MAKTPS™GP

Flexibility for Every Industry

Our General Purpose TPE-SEBS (Thermoplastic Elastomer - Styrene Ethylene Butylene Styrene) delivers exceptional versatility, making it an ideal choice for a wide range of industrial applications.





All grades can be custom-formulated to meet specific customer requirements, including hardness adjustments, enhanced properties (such as UV stability and flame retardancy), and tailored bonding compatibility. The material is available in a broad selection of standard and custom colors.

Product	Hardnes Shore A	Density (g/cm3)	Tensile Strength (MPa)	Tensile Stress 100% (MPa)	Elongation at Break (%)	Tear Strength (N/mm)	Features
MAKTPS ™GP 30	30	0.89	4.20	0.80	680	18.00	Smooth texture.
MAKTPS ™GP 35	35	0.89	5.30	0.95	690	22.8	Resistant to mild chemicals
MAKTPS ™GP 40	40	0.89	6.00	1.00	720	24.2	Abrasion resistant.
MAKTPS ™GP 45	45	0.89	6.33	1.33	744	25.6	Impact Resistant.
MAKTPS ™GP 50	50	0.89	6.50	1.50	750	26.5	Good Chemical Resistance.
MAKTPS ™GP 55	55	0.89	7.85	1.78	790	31.90	Wear and Abrasion Resistant.
MAKTPS ™GP 60	60	0.89	9.20	2.0	800	34.2	High Mechanical Strength.

*All the grades mentioned are suitable for injection molding and extrusion processes and can bond to polyolefin substrates.

MAKTPS™ST

Engineered for Comfort

MAKTPS™ST is a high-performance TPE-SEBS material engineered to deliver premium soft-touch properties with exceptional bonding capabilities to a wide range of substrates, including PA, ABS, PMMA, PC.

This material maintains consistent flexibility across a broad temperature range (-40°C to 90°C) and offers customizable hardness, color matching, and surface modifications to suit specific application needs.

Ideal for demanding applications in automotive interiors, consumer goods, electronics, and household goods.

MAK Sohar provides tailored formulation services to meet the precise requirements of soft-touch components, including soft-touch grades that bond to PS, PET, and other polymeric substrates.

Product Unit	Hardnes Shore A	Density (g/cm3)	Tensile Strength (MPa)	Tensile Stress @100% (MPa)	Elongation at Break (%)	Tear Strength (N/mm)	Bonds to
MAKTPS ™ST 30 S	30	1.11	2.25	1.10	600	12.1	ABS PC PET PMMA.
MAKTPS ™ST 40 S	40	1.11	4.50	1.55	600	16	
MAKTPS ™ST 50 S	50	1.11	5.20	1.95	600	26.2	
MAKTPS ™ST 60 S	60	1.11	7.90	2.10	610	36.0	
MAKTPS ™ST 30 N	30	1.13	2.70	0.95	550	12	PA.
MAKTPS ™ST 40 N	40	1.13	3.10	1.09	550	17	
MAKTPS ™ST 50 N	50	1.13	3.40	1.13	550	21	
MAKTPS ™ST 60 N	60	1.13	5.00	2.40	550	27.50	

*All grades listed in the table are suitable for both injection molding and extrusion processes.

MAKTPS™ IN & MAKTPS™ EX

Making Every Trip Smoother

Custom TPE-SEBS solutions for automotive interiors and exteriors by MAK Sohar, MAKTPS™ IN is optimized for interior components, while MAKTPS™ EX delivers superior durability for exterior parts. All grades can be customized, including color matching, low-friction modifications, and hardness adjustments.

Applications for MAKTPS™ IN include interior trim, control buttons, and seals, while MAKTPS™ EX is ideal for bumper inserts, door seals, and grille accents.

MAK Sohar offers tailored solutions to meet the specific needs of your automotive projects.

Product Unit	Hardnes Shore A	Density (g/cm3)	Tensile Strength (MPa)	Tensile Stress@100% (MPa)	Elongation at Break (%)	Tear Strength (N/mm)	Features
MAKTPS ™ IN 30	30	1.10	6.0	0.7	750	16.5	Fine surface finish.
MAKTPS ™ IN 40	40	1.10	7.2	1.0	750	19.0	Good Surface Finish.
MAKTPS ™ IN 50	50	1.10	9.1	1.5	800	19.7	Scratch Resistance.
MAKTPS ™ IN 60	60	1.10	10.2	1.75	820	22.0	Bondable to PP, scratch resistance.
MAKTPS ™ EX 30	30	1.15	4.2	0.7	750	19.0	Enhanced Vibration Dampening
MAKTPS ™ EX 40	40	1.15	5. 6	0.95	750	19.5	Good Surface Finish
MAKTPS ™ EX 50	50	1.15	6.2	1.40	800	20.0	Impact Resistance
MAKTPS ™ EX 60	60	1.15	7.0	1.6	850	20.2	UV-Stabilized,

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