



MARFRAN

ELASTOMERS. WITH PASSION

TPE COMPOUNDS



MARFRAN® A WORLD OF POSSIBILITIES

MARFRAN® is the commercial brand of our products, all obtained with sophisticated mixing processes. The elastomeric portion of the compounds is composed of styrene rubber while the plastic part is composed of polyolefin, namely: polypropylene (PP), polyethylene (PE), ethylene vinyl acetate (EVA), styrene polymers (PS e HIPS).

The products portfolio is the most assorted on the market:

SBS based TPE-S: polyolefin polymers or styrene polymers with SBS elastomer. Compounds for injection and extrusion molding: soft touch, easy to process, colorable, high transparency, highly elastic, resistant to abrasion, in various flexural modulus and hardness.

SEBS based TPE-S: polyolefin polymers and others with SEBS elastomer. Compounds for injection and extrusion molding: soft touch, guarantees optimal ageing and atmospheric resistance, low compression set, high elasticity, easy to process, colorable, high transparency.

- We ensure declarations of suitability for products: REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals).
- Directives 2002/95/CE (ROHS), 2002/96/CE (RAFF) and 2000/53/CE (ELV).
- Presence of Substances of Very High Concern (SVHC).
- Free from Phthalates, Polycyclic Aromatic Hydrocarbons (PAH's), Polybrominated biphenyl (PBB), Polybrominated biphenyl ether (PBDE).
- Most recent ISO 9001/UNI EN ISO 9001:2015 quality management certifications and ISO 13485:2016 and the rules of Good Manufacturing Practices.



SPORTS & LEISURE

Soles for cross-country and alpine skiing, mouthpieces for snorkels, fins, diving masks and swimming goggles, cycling accessories, knobs for motorcycles and bicycles, handles for rackets.



HOUSEHOLD

Households items, slats supports, clamps hangers, games and juggling, handles, caps, gaskets, buckets, carpets, rugs parts, shower mats, power tools, household tools, sanitary seals, brushes, mops, pipes, electrical applications.



AUTOMOTIVE

EXTERIORS:

mud guards, air vents.

UNDER THE HOOD:

air ducts, waterproof seals.

INTERIORS:

dashboard details/panels, mats, profiles, cable guides, pipes.



BUILDING

Extruded seals, sealing elements for pipes, hydraulic seals, profiles for windows and extruded parts, gaskets, cable guides, hoses, pipes.



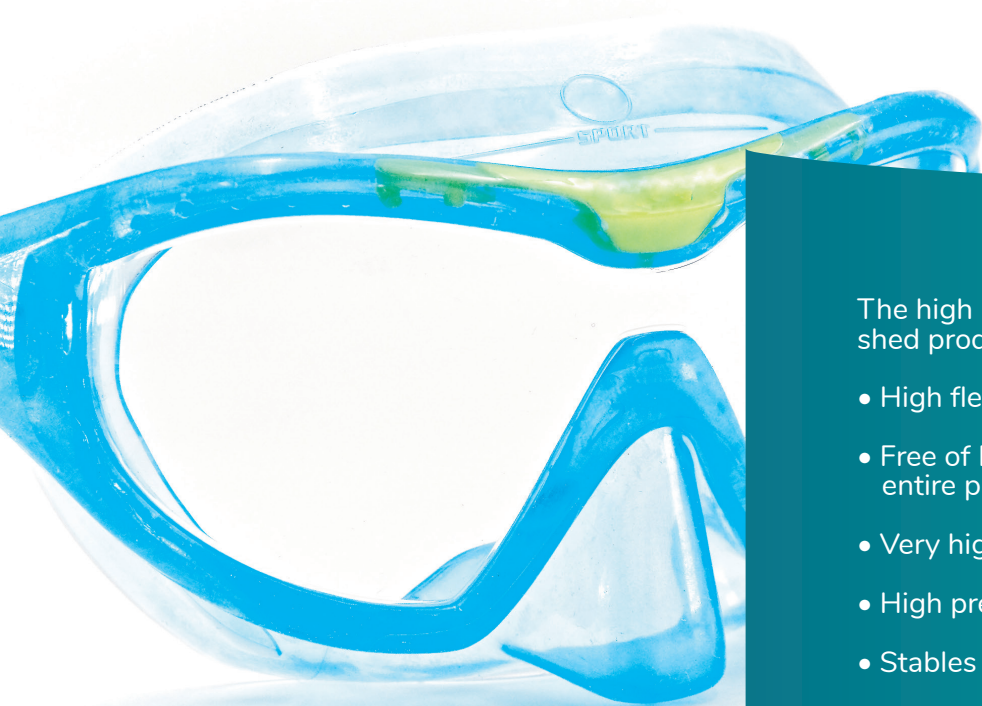
FOOTWEAR

Compact standard soles, transparent soles, galoshes, leisure and hospital clogs, sandals, boot parts, colorful shoes, colorful compound samples.



GOALS

- Respect for the environmental.
- Constant monitoring to limit waste of water and energy resources.
- Timely compliance Environmental, Protection and Safety regulations.
- Research and development production processes that reduce environmental impact.
- Waste management, disposal, and use of renewable resources for eco-friendly production.



The high processability allows obtaining semi-finished products characterized by:

- High flexibility, soft touch.
- Free of PVC, silicone and latex in the entire production chain.
- Very high transparency and colored compound.
- High precision and dimensional consistency.
- Stable working conditions and process.
- High performance in 2K moulding process adhesion to polyolefin with co-extrusion and molding processes, special grades for adhesion to PC, ABS, PMMA, SAN, ASA, PA6.
- Short drying process, guarantee of rheological homogeneity of the batch.
- Easy assembly, short cooling times, no moisture absorption over time.
- No external migration phenomenon for the oil-free compounds.
- Limited thermal degradation (no black spots, no yellowness) in the normal process range (160°C - 220°C).
- Wide range of operating temperatures (-50°C to 125°C in function of the hardness).

MARFRAN® GRADES OVERVIEW

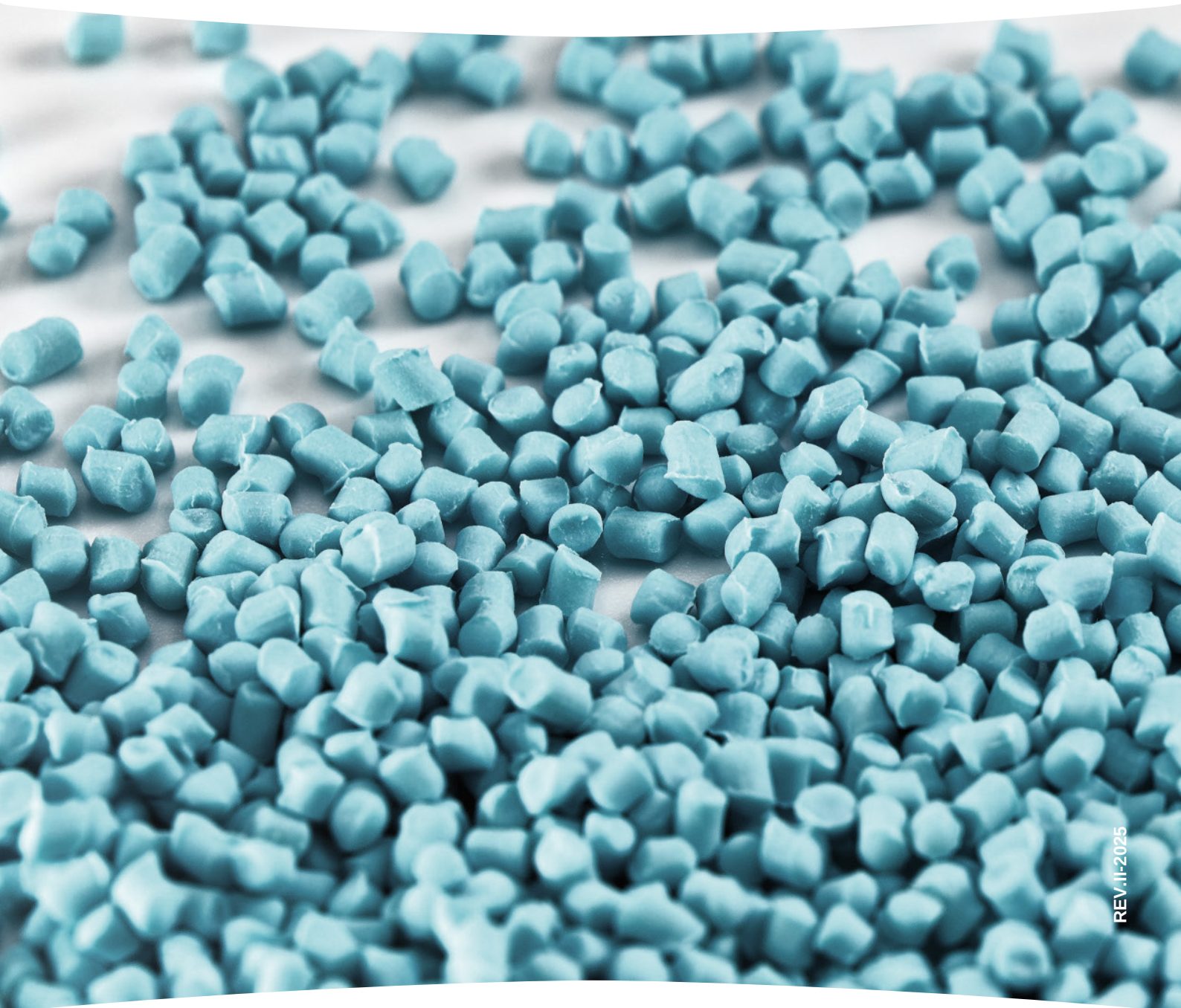
TPE based on SBS GRADE	Aspect	Hardness ShA	Density (g/cm³)	Tensile Strength (Mpa)
MARFRAN® B TS	matt high density	50-80	1.25	1.5-2.5
MARFRAN® B TSE	matt high density	50-80	1.25	1.5-2.6
MARFRAN® B ATC	translucent	55-80	1.08	3.5-4.0
MARFRAN® B CV2	transparent	45-85	0.94	4.5-11.0
MARFRAN® B F1	translucent	40-95	0.91	2.5-8.0
MARFRAN® B F2	matt	40-90	1.02-1.00	2.3-6.5
MARFRAN® B LGS	matt high fluidity	60-95	1.01	3.0-6.0
MARFRAN® B MG	translucent for corks	78-90	0.91	4.5-5.5
MARFRAN® B MNT	matt	30-65	1.05-1.06	2.0-2.5
MARFRAN® B RE	matt	55-95	1.02-1.01	3.0-7.5

TPE based on SEBS GRADE	Aspect	Hardness ShA	Density (g/cm³)	Tensile Strength (Mpa)
MARFRAN® E DV2	matt salt water resistant	47-67	1.12	4.8-5.8
MARFRAN® E FG1	translucent high fluidity	20-95	0.89	4.0-13.0
MARFRAN® E FG2	matt high fluidity	20-95	1.00	3.5-12.0
MARFRAN® E FG3	matt high fluidity	20-95	1.11	2.0-10.0
MARFRAN® E FKK	transparent high fluidity	30-95	0.89	2.5-10.0
MARFRAN® E G1	translucent	20-95	0.89	3.0-13.0
MARFRAN® E G12	translucent	30-90	0.91	4.0-12.0
MARFRAN® E G2	matt	30-95	1.00	3.5-12.0
MARFRAN® E G3	matt	30-95	1.11	2.6-8.5
MARFRAN® E HEK	transparent high tensile	20-30	0.89	4.0-5.0
MARFRAN® E KK	transparent	30-95	0.89	3.5-12.0
MARFRAN® E KKC	translucent	40-90	1.02	2.5-10.5
MARFRAN® E KPA	transparent oil free	50-90	0.89	9.5-12.5
MARFRAN® E LF	translucent low fogging	30-90	0.87	4.8-12.0
MARFRAN® E M1	translucent high mech. properties	30-90	0.89	4.5-12.0
MARFRAN® E M1E	translucent	50-90	0.89	6.0-11.0
MARFRAN® E M2	matt high mech. properties	30-90	1.06-1.02	4.0-11.0
MARFRAN® E M2E	matt	50-90	0.99	5.5-11.0
MARFRAN® E M3	matt high mech. properties	30-90	1.15-1.11	3.5-10.0
MARFRAN® E M3E	matt	50-90	1.18-1.13	5.5-10.0
MARFRAN® E SM1	translucent top mech. properties	30-90	0.89	6.0-16.0

MARFRAN® GRADES OVERVIEW

TPE based on SBS GRADE	Elongation at break (%)	Tear strength (N/mm)	Injection Moulding	Extrusion
MARFRAN® B TS	550-250	15.0-20.0	X	X
MARFRAN® B TSE	550-251	15.0-20.1		
MARFRAN® B ATC	750-550	19.0-20.0	X	
MARFRAN® B CV2	900-800	22.0-60.0	X	
MARFRAN® B F1	900-500	18.0-47.0	X	
MARFRAN® B F2	650-450	16.0-40.0	X	
MARFRAN® B LGS	550-450	24.0-38.0	X	
MARFRAN® B MG	550	32.0-38.0	X	
MARFRAN® B MNT	800-400	13.0-20.0	X	
MARFRAN® B RE	700-500	22.0-45.0	X	

TPE based on SEBS GRADE	Elongation at break (%)	Tear strength (N/mm)	Injection Moulding	Extrusion
MARFRAN® E DV2	750	19.0-25.0	X	X
MARFRAN® E FG1	950-700	12.0-44.0	X	
MARFRAN® E FG2	950-700	11.0-44.0	X	
MARFRAN® E FG3	900-600	10.0-40.0	X	
MARFRAN® E FKK	700-650	10.0-45.0	X	
MARFRAN® E G1	800-700	9.0-44.0	X	X
MARFRAN® E G12	800-700	12.0-42.0	X	X
MARFRAN® E G2	800-700	12.0-44.0	X	X
MARFRAN® E G3	750-650	10.00-40.0	X	X
MARFRAN® E HEK	750	12.0-18.0	X	X
MARFRAN® E KK	700-650	10.0-50.0	X	
MARFRAN® E KKC	700-650	16.0-43.0	X	
MARFRAN® E KPA	700	22.0-52.0	X	X
MARFRAN® E LF	850	10.0-44.0	X	
MARFRAN® E M1	800	10.0-44.0	X	X
MARFRAN® E M1E	750	18.1-40.0		X
MARFRAN® E M2	700	10.0-43.0	X	X
MARFRAN® E M2E	750-700	18.0-40.0		X
MARFRAN® E M3	700	10.0-43.0	X	X
MARFRAN® E M3E	750-700	18.0-39.0		X
MARFRAN® E SM1	800	19.0-55.0	X	X



REV. II-2025

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