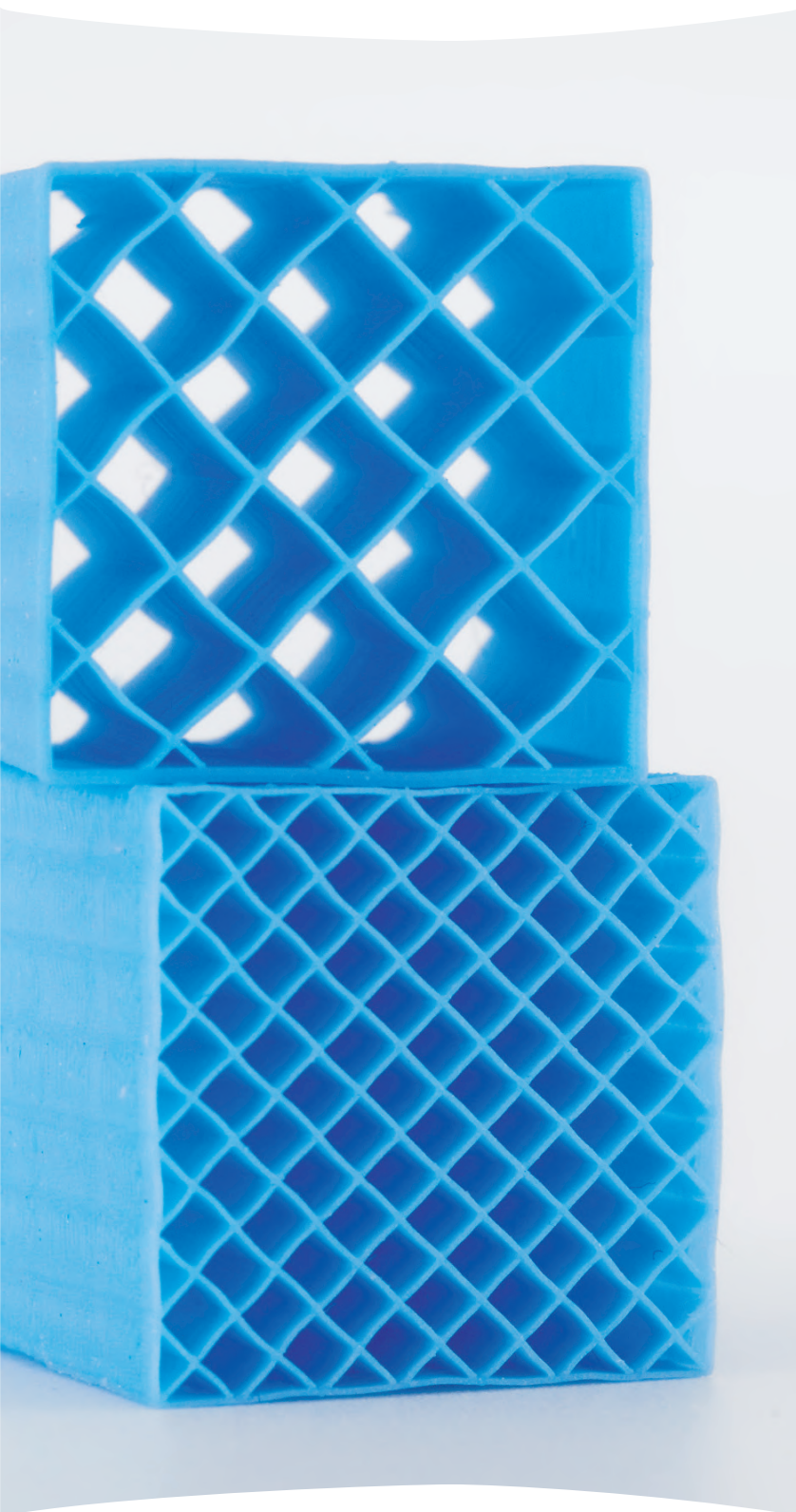




MARFRAN.MSTR

**FOAMING AGENT
FOAMING MASTERBATCHES**



MASTERFRAN® ONE SOLUTION FOR:

1.LIGHTENING

Foaming masterbatches are commonly used to reduce the weight of the artefacts. Moreover, the reduction in weight/volume ratio of the expanded material allows a considerable reduction in costs.

2.ELIMINATING SUCTION

Foaming agents can also be used to eliminate suction phenomena, ie the superficial depressions of molded parts created by excessive shrinkage in particularly thick areas during cooling.

3.BETTER AESTHETIC

The use of foaming masterbatches along with the plastic material, allows a combined velvety and matt finish giving to the finished product a soft touch feeling.

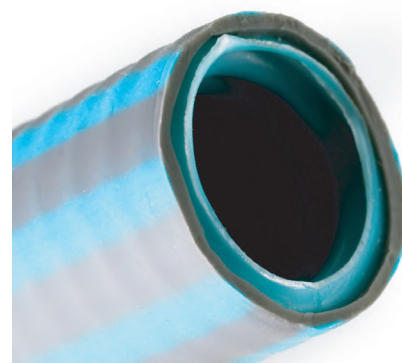
MASTERFRAN® ONE SOLUTION FOR MANY MARKETS:



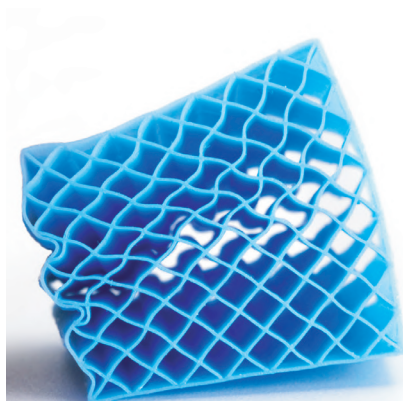
AUTOMOTIVE



SPORT



TUBING AND FITTINGS



SAFE TOYS AND GADGETS



MECHANICAL EQUIPMENT AND TOOLS



CLOSURES AND CAPS

Expanding masterbatches contain reactive additives that, during the processing of the material, create void space lightening the artefact. Our MASTERFRAN® are foaming masterbatches where the active principle is incorporated in a polymeric carrier (often EVA) which makes it compatible with the most common plastic materials such as TPE-S, polyolefins, PVC, EVA, EPDM, polyurethane etc.

In the context of foaming additives, it is possible to distinguish between physical and endothermal additives that have different properties. By combining multiple active principles in the right amount, it is possible to obtain a fine and regular cell formation in the expanded material, thus optimizing the properties of the moulded object.

Our MASTERFRAN® are based both on physical expanding additive and on mixtures of physical and endothermal additives with concentrations of active principle up to 65% in order to offer different levels and different expansion modes aiming to satisfy all requests of usage and market.



THE MASTERFRAN® RANGE

TEMPERATURE (C°)

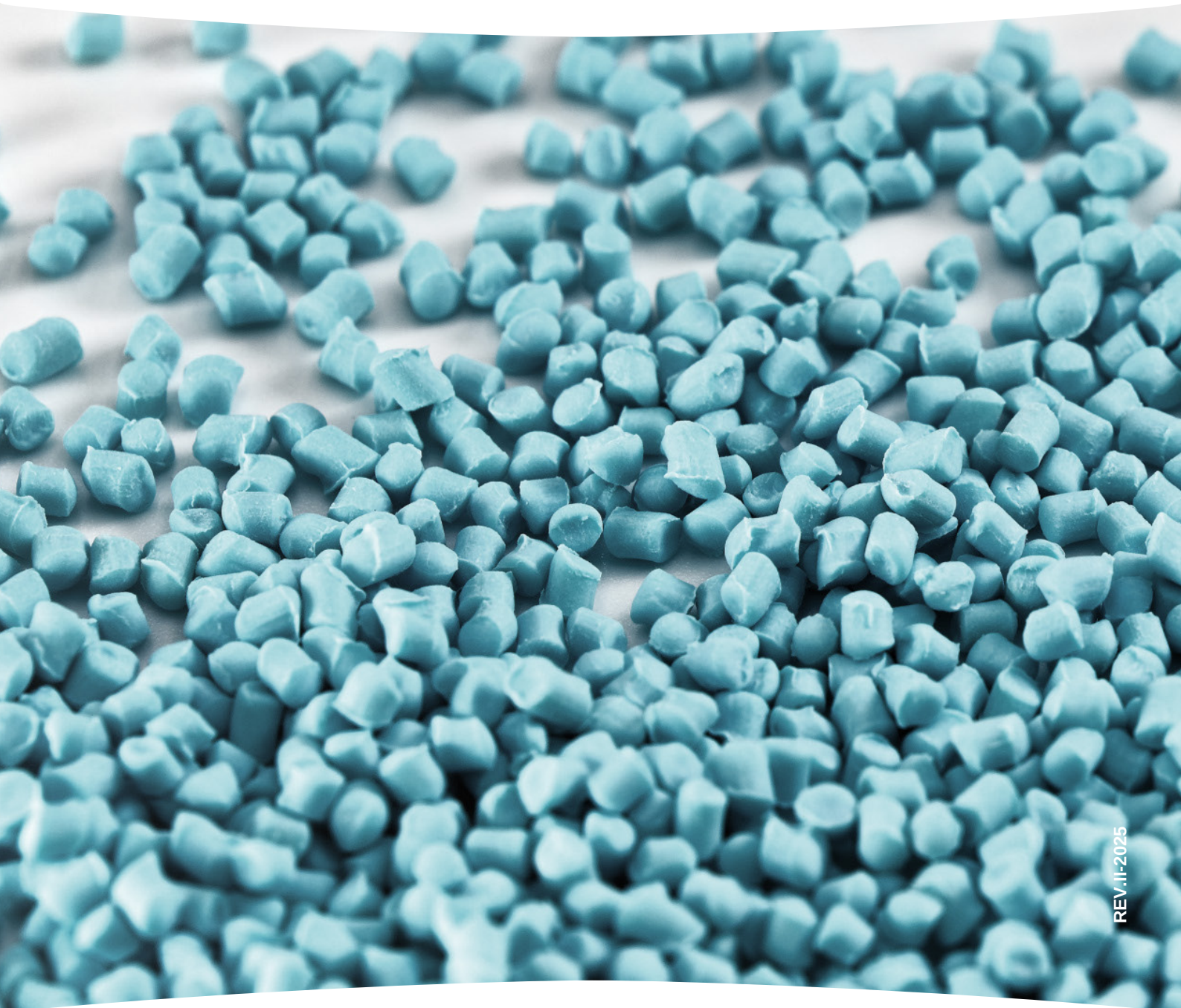
TYPE OF EXPANDING PRINCIPLE	Granule density (g/cm³)	Expansion Efficiency (ml/g)	Active principle (%)	Suggested dosage (%)	Activation	Decomposition
PHYSICAL						
MASTERFRAN® FM 56001 A	0,85	>40	65	2-6	120-135	190-210
MASTERFRAN® FM 56002 A	0,78	>60	65	2-6	130-145	190-210
PHYSICAL + ENDOTHERMAL						
MASTERFRAN® FM 05032 A	1,03	>22	50	3-6	120-135	190-210

INDICATIONS FOR USE:

- The thickness of the expanded part should exceed 5 mm.
- We recommend operating with nozzle closure.
- The injection speed should be as low as possible to avoid premature gas expansion of the material.

The product is sold in 25 kg bags appropriately initialed according to product class.

CONTACT US FOR MORE INFORMATION ABOUT OUR FOAMING MASTERBATCH RANGE. OUR TECHNICIANS WILL ADVISE YOU ON THE BEST SOLUTION FOR YOUR NEEDS.



REV. II-2025

MARFRAN SRL

Via Giulio Pastore, 33/35 - Fraz. Nigoline
25040 Corte Franca (BS) - Italy
Phone: +39 030 9860511 Fax: +39 030 984244
www.marfran.com
www.tpe.it
info@marfran.com



MARFRAN

ELASTOMERS. WITH PASSION