

NEW

## Gas permeability: the new frontier of Marfran Med.

Francesco Franceschetti Elastomeri is glad to announce the beginning of commercialization of new TPE GAS BARRIER belonging to the medical TPE compound under the name **MARFRAN MED GSBR**.

Studied for stopper and closures for medical and pharmaceutical application, as well for film packaging MARFRAN GSBR, extend the typical TPE performance to their high values of permeability and barrier properties same as that of Butyl Rubber, natural Rubber and Polyisoprene Rubber .

Retain Pressure and Vacuum, Protect contents from oxidation, Good Sealability, Good Reseal and Sterilizability, these are some of the main properties of our formulation called MARFRAN MED GSBR, with the following details:

OTR	cc*mil/m <sup>2</sup> *day	cc*mil/m <sup>2</sup> *day	m <sup>2</sup> /Pa*s	Code	Hardness	Steam sterilization
	<b>Classification range</b>	<b>Our results</b>				
<b>TPE</b>	50000-60000	ASTM F 1927	ISO 2782-1			121°C and 134°C
<b>medium barrier</b>	10000-20000	15579	<2,82*10 <sup>-21</sup>	MARFRAN GSBR 1473.040	47 ShA	yes
<b>high barrier</b>	4000-10000	5732	<2,22*10 <sup>-21</sup>	MARFRAN GSBR 015.010	45 ShA	yes
<b>high barrier</b>	4000-10000	5389	<2,50*10 <sup>-21</sup>	MARFRAN GSBR 015.020	42 ShA	yes
<b>suoeer barrier</b>	400-4000	2218	<2,45*10 <sup>-21</sup>	MARFRAN GSBR 015.030	48 ShA	yes

**MARFRAN MED GSBR** are **ISO 2782 /ASTM F 18927** approved and as every single MARFRAN MED compound produced in a certificated **ISO 13485** plant .

Francesco Franceschetti Elastomeri produce and commercialized TPE/TPO compound under the registered trade names **MARFRAN & MARFRAN MED** as well for liquid compound solution under the brand name **LI.SO.EF**.

