

DATA SHEET

NITRILE (NBR)

It belongs to the family of synthetic rubbers, it is a copolymer of butadiene and acrylonitrile, highly resistant to oils and hydrocarbons.

It is used in the automotive and aeronautical industry for fuel hoses and handling of hydrocarbons, seals and washers, in the nuclear industry to manufacture protective gloves, it is used to create molded products, adhesives, sealants, sponges, expandable foams and carpets. floor.

GENERAL PROPERTIES

- Medium resistance to low temperatures and outdoors.
- Low resistance against aromatic hydrocarbons (benzene, toluene, xylene).
- Good adhesion to steel.
- Very good resistance to aliphatic oils and hydrocarbons (hexane, heptane, methane, ethane, octane, butane, pentane).
- Resists acids (except oxidants), fatty acids, vegetable or animal fats well.
- It is worth noting its low permeability to air and other hydrocarbon gases such as natural gas, propane and butane.



TECHNICAL DATA:

	50°	60°	65°	70°	75°	TEST
DENSITY (g/cm ³)	1,39 ± 0,05	1,29 ± 0,05	1,47 ± 0,05	1,39 ± 0,05	1,28 ± 0,05	ISO R1183
HARDNESS Shore A	50 (+/-5)	60 (+/-5)	65 (+/-5)	70 (+/-5)	75 (+/-5)	ASTM D 2240
ELONGATION (%)	470	560	375	550	230	UNE ISO 37
TENSILE STRENGTH (MPa)	6,0	8,5	13	7,0	12,0	UNE ISO 37
TEMPERATURE MIN (°C)	-30	-30	-30	-30	-30	
TEMPERATURE MAX (°C)	100	100	110	100	100	
COMPRESSION SET (%)	22	30	40	30	20	ASTM D 624A
ASTM INFLATION IN FUEL B (%)	-4	-3	-8	-4	-4	ASTM F 146
IRM903 DIPPING IN OIL (%)	+15	+9	+9	+14	-5	ASTM D 471-06
COLOR	●	●	● ● ●	●	●	

APLICATIONS

Its application is ideal in applications that have to maintain its mechanical resistance after contact with hydrocarbon fluids, as well as protections and coatings against acids and oils. It is also used in gaskets for oils and gasoline and gaskets for gas and acid type membranes and deflectors.

