

Resilient Materials

BUNA N, NBR OR NITRILE

Common Name	Buna N FDA Approved NBR Nitrile
Chemical Name	(Butadiene Acrylonitrile Copolymer)
Color	Black White
FDA Food Grade	Yes Yes
Temperature Range	0-200 20-180

Buna N is a copolymer of butadiene and acrylonitrile. It is a general-purpose polymer that has good resistance to oil, water, solvents and hydraulic fluids. It also displays excellent compression set properties, abrasion resistance and tear resistance. This material performs admirably in areas where fatty acids, oils, alcohols or glycerins are present. It is limited by its poor resistance to acetones, ketones, chlorinated hydrocarbons, ozone and by its mediocre heat resistance.

EPDM, EPT, OR ETHYLENE-PROPYLENE

Common Name	EPDM FDA Approved EPT EPR
Chemical Name	Ethylene Propylene Diene Monomer)
Color	Black White
FDA Food Grade	Yes Yes
Temperature Range	-40-275 -40-250

EPDM is a compound of ethylene, propylene and usually a third monomer and is increasingly popular in many industrial services. It has a wide variety of uses, including applications requiring good chemical, weather, abrasion and heat resistance. EPDM is suitable for use in animal and vegetable oils, ozone, oxidizing chemicals and low-pressure steam. It is also resistant to mild acids, alkalis, silicon oils, and ketones. It is limited by its poor performance in applications involving petroleum oils and solvents.

VITON, FKM OR FLUOROCARBON

Common Name	Viton FPM Fluoro-Elastomer
Chemical Name	(Fluorocarbon Polymer)
Color	Black
FDA Food Grade	Yes
Temperature Range	0-325

Viton is a fluorocarbon elastomer that is compatible with a broad range of chemicals. It is an excellent choice as a seal material for applications involving chemical at higher temperatures. Viton is suitable for and resistant to mineral acids, salt solutions, animal and vegetable oils, and performs extremely well in hydrocarbon services. It may be used on bleached paper lines. It is not suitable for use in hot water, steam and applications where ketones are present.
