

Nitrile Butadiene (NBR) is a copolymer of acrylonitrile and butadiene, and is available in various ratios of these monomers. NBR has good oil and gasoline resistance, tensile strength, elongation properties, heat resistance and low compression set. Special compounding is required for good weather ability. Nitrile is the one of the most widely used rubber materials due to its combination of low cost, resistance to many chemicals, and good physical properties. The acrylonitrile content of this highly polar elastomer provides excellent oil and gas permeation resistance, which increases as the level of CAN increases. Typical ACN content ranges from 18% to 50%. Nitrile should not be exposed to direct sunlight or moderate to high levels of atmospheric ozone, as rapid deterioration will result.

General Information

Service Temperature	-50°C to 100°C
Hardness Range	40 ~ 90 Shore A
Colour	Black

Typical Uses

Automotive, Industrial,
General Packing & Sealing Applications

Performance Parameters:

	Excellent	Good	Fair	Poor
STEAM			●	
SUNLIGHT			●	
WEATHERING / OZONE			●	
COMPRESSION SET			●	
ABRASION RESISTENCE			●	
FLAME RESISTENCE				●
GAS PERMEATION		●		
CHEMICALS / SOLVENTS		●		
PETROLEUM OILS		●		
FUELS / GASOLINE		●		
BRAKE FLUIDS				●
TRANSMISSION FLUIDS		●		
STEERING FLUIDS				●
REFREGERANTS			●	