

# Nitrile Rubber (NBR)

## Features:

Abbreviation	NBR
ASTM D-2000 classification	BF,BG,BK,CH

## General Characteristics

Tensile Strength	Good
Elongation	Good
Rebound Resistance	Good
Tear Resistance	Good
Abrasion-Resistance	Excellent
Impact Strength Resistance	Good
Gas Impermeability Resistance	Good
Ozone Resistance	Poor
Weathering Resistance	Limited
Flame Resistance	Poor
Heat Resistance	Limited
Low Temperature Resistance	Limited
Oil and Fuel Resistance	Good
Animal and Vegetable Oil Resistance	Excellent
Alcohol Resistance	Good
Alkaline Resistance	Good
Acid Resistance	Good
Aliphatic-solvent Resistance	
-Aliphatic	Excellent
-Aromatic	Suitable
Oxygenated-Solvent Resistance	Poor
Water Resistance	Good
Adhesion To Metals	Good

## Advantage:

1. Has good solvent, oil, water and hydraulic fluid resistance.
2. Good compression set, abrasion resistance and tensile strength.

## Disdvantage:

1. Not recommended for using in highly polar solvents such as acetone, and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.