

NBR, or acrylonitrile butadiene rubber, is a synthetic rubber material known for its excellent oil resistance, fuel resistance, and resilience. It is commonly used in applications where resistance to oils, fuels, and chemicals is required, such as seals, gaskets, O-rings, and hoses. NBR offers good mechanical properties, including high tensile strength and flexibility.

Chemical Description

Description	Value
Material Type	Synthetic Rubber
Chemical Name	Acrylonitrile butadiene rubber
Additives	Unfilled
Color	Black
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Density,lbs/in3	0.0361
Coefficient of Linear Thermal Expansion, x10-5 in./in./°F	39
Maximum Service Temp,°F	248
Minimum Service Temp,°F	-22
Brittleness Temp,°F	-60

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	1.0-3.5
100% Modulus,ksi	0.435
Elongation at Break	400%-600%
Hardness Shore D	30-95

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.