

MATERIAL DATA SHEET

NITRILE RUBBER (NBR 60) FOOD QUALITY (FDA)

DESCRIPTION

The outstanding property of Nitrile rubber is its resistance to petroleum oils and aromatic hydrocarbons. Nitrile is highly resistant to mineral oils, vegetable oils, and many acids. It also has good elongation properties as well as adequate resilience, tensile and compression set.

The ingredients that make up NBR60 FDA are in accordance with FDA regulations & the post cure is performed in conjunction with raw material manufacturer's recommendations in accordance to maintain the FDA status.

TYPICAL PHYSICAL PROPERTIES

HARDNESS RANGE 40 – 95 IRHD

HEAT RESISTANCE

MAXIMUM CONTINUOUS 120°C
MAXIMUM INTERMITTENT 130°C
LOW TEMPERATURE RESISTANCE -40°C
OXIDATION RESISTANCE GOOD
OZONE & WEATHERING RESISTANCE FAIR

OIL RESISTANCE

* ASTM OIL No.1 @ 20°C EXCELLENT
* ASTM OIL No.1 @ 100°C GOOD
* ASTM OIL No.3 @ 20°C EXCELLENT
* ASTM OIL No.3 @ 100°C GOOD

FUEL RESISTANCE

* ASTM FUEL B @ 40°C FAIR

SOLVENT RESISTANCE (20°C)

ALCOHOL GOOD
ACETONE UNSUITABLE
BENZENE UNSUITABLE

CHEMICAL RESISTANCE

ACIDS GOOD
BASES FAIR
PHYSICAL STRENGTH GOOD
COMPRESSION SET GOOD
TEAR & ABRASION RESISTANCE GOOD
RESILIENCE GOOD
PERMEABILITY TO GASES LOW
ELECTRICAL STRENGTH POOR
FLAME RESISTANCE POOR
WATER RESISTANCE GOOD

FOOD USE SUITABILITY EXCELLENT

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