#### **Grommets Ltd**

Unit 2, Hollands Lane Industrial Estate Henfield West Sussex BN5 9QY



www.grommets.co.uk



**+** +44 (0)1273 493 388



# **MATERIAL DATA SHEET**

# **NITRILE RUBBER (NBR 60) BLACK**

**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.

### **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
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

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