

# Technical Data Sheet

## Nitrile Rubber WCMA40

**CHEMICAL DESCRIPTION:**

Acrylonitrile Butadiene, Nitrile Butadiene Rubber (NBR)

**PHYSICAL PROPERTIES**

TENSILE STRENGTH:	4 MPa
ELONGATION AT BREAK:	200%
ABRASION RESISTANCE:	Good
HARDNESS RANGE:	70° Sh. A +/- 5°
HEAT RESISTANCE:	-15° - + 90°C
OZONE RESISTANCE:	Poor
RESILIENCE:	Poor



**CHEMICAL RESISTANCE**

WATER:	Good to Excellent
DILUTE ACIDS & BASES:	Good
ALKALIS:	Good to Excellent
OZONE:	Poor
HYDROCARBONS:	Moderate
SOLVENTS:	Moderate

	Inc. in Hardness Sh. A	Inc. in Tensile %	Inc. in Elongation %
THERMAL AGEING: 70 HOURS @ 70°C	5	-15	-40
VOLUME SWELLING: 70 HOURS @ 70°C	ASTM 5 Inc. Vol Oil % 10	IRM903 Inc. Vol. Oil % 60	

At one time Nitrile was the material of choice for resistance to fuels and oils, however as fuels have developed over the years, Nitrile has become less suitable, particularly where bio-fuels are concerned. As the table above shows in the IRM903 oil test Nitrile swelled 60%. However Nitrile still has a use with some oils and has good resistance to inorganic chemical products except antioxidant agents and chlorine.

**ELASTOMERS**

Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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