

Data Sheet: N70

MATERIAL: NITRILE 70 (ROTARY SHAFT SEALS)

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -35°C to 110°C

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A 70+/-5	ASTM D2240	73
TENSILE STRENGTH, MPa	ASTM D412C	19.4
ELONGATION, %	ASTM D412C	330
TEAR RESISTANCE N/mm	ASTM D624B	62
SPECIFIC GRAVITY	ASTM D297	1.25

COMPRESSION SET

HEAT AGEING 22 hrs @ 100°C %	ASTM D395B	+10
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AIR AGEING 70hrs @ 100°C

HARDNESS CHANGE, POINTS	ASTMD573	+1
TENSILE STRENGTH CHANGE, %	ASTMD573	+7
ELONGATION CHANGE, %	ASTMD573	-13
VOLUME CHANGE, %	ASTMD573	+1

FLUID RESISTANCE, No.1 Oil. 70 hrs @ 100°C

HARDNESS CHANGE, POINTS	ASTMD471	+1
TENSILE STRENGTH CHANGE, %	ASTMD471	+6
ELONGATION CHANGE, %	ASTMD471	-10
VOLUME CHANGE, %	ASTMD471	-4

FLUID RESISTANCE, No.3.OIL. 70 hrs @100°C

HARDNESS CHANGE, POINTS	ASTMD471	-9
TENSILE STRENGTH CHANGE, %	ASTMD471	-9
ELONGATION CHANGE, %	ASTMD471	-1
VOLUME CHANGE, %	ASTMD471	+8

FLUID RESISTANCE, Fuel A 70 hrs @ 23°C

HARDNESS CHANGE, POINTS	ASTMD471	-2
TENSILE STRENGTH CHANGE, %	ASTMD471	-8
ELONGATION CHANGE, %	ASTMD471	-2
VOLUME CHANGE, %	ASTMD471	+2

FLUID RESISTANCE, Fuel B 70 hrs @ 23°C

HARDNESS CHANGE, POINTS	ASTMD471	-8
TENSILE STRENGTH CHANGE, %	ASTMD471	-41
ELONGATION CHANGE, %	ASTMD471	-32
VOLUME CHANGE, %	ASTMD471	+18

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PHYSICAL PROPERTIES**TEST METHOD****TEST RESULT****FLUID RESISTANCE, WATER 70 hrs @ 100°C**

HARDNESS CHANGE, POINTS

ASTMD471

-2

TENSILE STRENGTH CHANGE, %

ASTMD471

-2

ELONGATION CHANGE, %

ASTMD471

-14

VOLUME CHANGE, %

ASTMD471

-1

LOW TEMPERATURE RESISTANCE @ -40°C @ 3 Min

ASTMD2137A

Non-Brittle

The above test results are based on test slabs / buttons. The results from the actual parts may be different.

Issue Date: 03.07.2013