

Data Sheet: NH90

MATERIAL: NITRILE 90 SHORE (HIGH NITRILE – 40% ACN)

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000 M6BG910 A14 B14 EA14 EF11 EF21 EO14 EO31

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	90+/-5	86
TENSILE STRENGTH, psi	1450	2625
ELONGATION %	100	176
SPECIFIC GRAVITY		1.328
HEAT AGEING 70 hrs @100°C		
HARDNESS CHANGE, POINTS	+/-15	+5
TENSILE STRENGTH CHANGE %	+/-30	-1
ELONGATION CHANGE %	-50	-28
COMPRESSION SET		
HEAT AGEING 22 hrs @100°C	25	9
WATER RESISTANCE 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS		-1
TENSILE STRENGTH CHANGE %		0
ELONGATION CHANGE %		-17
VOLUME CHANGE %		+3.6
FLUID RESISTANCE, Fuel A, 70 hrs @ 23°C		
HARDNESS CHANGE, POINTS	+/-10	+2
TENSILE STRENGTH CHANGE %	-25	-3
ELONGATION CHANGE %	-25	-9
VOLUME CHANGE %	-5/+10	+0.8
FLUID RESISTANCE, Fuel B, 70 hrs @100°C		
HARDNESS CHANGE, POINTS	0/-30	-13
TENSILE STRENGTH CHANGE %	-60	-20
ELONGATION CHANGE %	-60	-25
VOLUME CHANGE %	0/+40	+17
FLUID RESISTANCE, ASTM No.1 Oil, 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS	-5/+15	+8
TENSILE STRENGTH CHANGE %	-25	+1
ELONGATION CHANGE %	-45	-32
VOLUME CHANGE %	-10/+25	-7.5

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PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
FLUID RESISTANCE, IRM 903.OIL. 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS	0/20	+5
TENSILE STRENGTH CHANGE %	-45	+1
ELONGATION CHANGE %	-45	-28
VOLUME CHANGE %	0/+35	-3.2
FLUID RESISTANCE, Fuel C, 70hrs @ 23°C (Z1)		
HARDNESS CHANGE, POINTS		-18
TENSILE STRENGTH CHANGE %		-27
ELONGATION CHANGE %		-29
VOLUME CHANGE %		+25.7

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

Issue Date: 27.05.2011