

Data Sheet: NH70

MATERIAL: NITRILE 70 SHORE (HIGH NITRILE – 40% ACN)

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000 M2BG710 A14 B14 EA14 EF11 EF21 Z1-Z4

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	71
TENSILE STRENGTH, psi	1450	2042
ELONGATION, %	250	352
SPECIFIC GRAVITY		1.276
HEAT AGEING 70 hrs @100°C		
HARDNESS CHANGE, POINTS	+/-15	+4
TENSILE STRENGTH CHANGE %	+/-30	+5
ELONGATION CHANGE %	-50	-27
COMPRESSION SET		
HEAT AGEING 22 hrs @ 100°C	25	16
WATER RESISTANCE 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS	+/-10	-5
TENSILE STRENGTH CHANGE %	-	0
ELONGATION CHANGE %	-	-18
VOLUME CHANGE %	+/-15	+10
FLUID RESISTANCE, Fuel A, 70hrs @ 23°C		
HARDNESS CHANGE, POINTS	+/-10	+1
TENSILE STRENGTH CHANGE %	-25	-2
ELONGATION CHANGE %	-25	-5
VOLUME CHANGE %	-5/+10	+1.2
FLUID RESISTANCE, Fuel B, 70hrs @100°C		
HARDNESS CHANGE, POINTS	0/-30	-14
TENSILE STRENGTH CHANGE %	-60	-25
ELONGATION CHANGE %	-60	-24
VOLUME CHANGE %	0/+40	+9.9
FLUID RESISTANCE, ASTM No.1 Oil, 70hrs @ 100°C		
HARDNESS CHANGE, POINTS (Z1)		+16
TENSILE STRENGTH CHANGE %	-25	+12
ELONGATION CHANGE %	-45	-26
VOLUME CHANGE % (Z2)	-10/+25	-13.4

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PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
FLUID RESISTANCE, IRM 903.OIL. 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS (Z3)		+15
TENSILE STRENGTH CHANGE %	-45	+10
ELONGATION CHANGE %	-45	-25
VOLUME CHANGE % (Z4)		-10.3

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

Issue Date: 27.05.2011