

Data Sheet: HNBR70

MATERIAL: HYDROGENATED NITRILE 70 SHORE

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -40°C to 150°C

SPECIFICATION: M4DH710 A26 B36 EO16 EO36 F17

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	72
TENSILE STRENGTH, psi	1450	3152
ELONGATION, %	200	340
MODULUS AT 100%, psi (n/mm ²)		753 (5.19)
SPECIFIC GRAVITY		1.25

HEAT AGEING @ 70hrs @ 150°C

HARDNESS CHANGE, POINTS	+10	+2
TENSILE STRENGTH CHANGE %	-15	+1
ELONGATION CHANGE %	-30	+1

COMPRESSION SET

22hrs @ 150°C %	35	16
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FLUID RESISTANCE, No.1 Oil 70hrs @ 150°C

HARDNESS CHANGE, POINTS	-5/+10	-2
TENSILE STRENGTH CHANGE %	-20	+6
ELONGATION CHANGE %	-30	+8
VOLUME CHANGE %	10/+5	-1.7

FLUID RESISTANCE, No.3.OIL 70hrs @150°C

HARDNESS CHANGE, POINTS	-15	-10
TENSILE STRENGTH CHANGE %	-30	-8
ELONGATION CHANGE %	-30	-7
VOLUME CHANGE %	+25	+13.1

LOW TEMPERATURE:

NON BRITTLE AFTER 3MINS @ -40°C		PASS
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The above test results are based on test slabs / buttons. The results from the actual parts may be different.

Issue Date: 14.04.2014