

Data Sheet: HNBR70LT

MATERIAL: HYDROGENATED NITRILE 70 LOW TEMPERATURE

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -50 to +130°C

SPECIFICATION: ASTM D2000-M4DH710 A26 B36 EO16 EO36 F17

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	71
TENSILE STRENGTH, MPa	16	19.1
ELONGATION, %	250	279
SPECIFIC GRAVITY		1.22

HEAT AGEING 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	+10	+6
TENSILE STRENGTH CHANGE, %	-25	0
ELONGATION CHANGE, %	-25	-10

COMPRESSION SET

22 hrs @ 150°C, %	35	15
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FLUID RESISTANCE, NO.1 OIL 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	-5/+10	+1
TENSILE STRENGTH CHANGE, %	-20	+8
ELONGATION CHANGE, %	-30	-13
VOLUME CHANGE, %	-10/+5	+2

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

HARDNESS CHANGE, POINTS	-15	-14
TENSILE STRENGTH CHANGE, %	-40	-29
ELONGATION CHANGE, %	-30	-15
VOLUME CHANGE, %	+25	+25

LOW TEMPERATURE BRITTLENESS TEST

3 MINS @ -45°C		NON BRITTLE
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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: 06.10.2014