

Data Sheet: HNBR90 LT

MATERIAL: HYDROGENATED NITRILE 90 SHORE LOW TEMPERATURE

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -40 to 150°C

SPECIFICATION: ASTM D2000-M3DH910 A26 B16 EO16 EO36 F17

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	90+/-5	88
TENSILE STRENGTH, MPa	10	17.1
ELONGATION, %	100	102
SPECIFIC GRAVITY		1.28

HEAT AGEING 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	+10	+3
TENSILE STRENGTH CHANGE, %	-25	-2
ELONGATION CHANGE, %	-30	+3

COMPRESSION SET

22 hrs @ 150°C, %	30	19
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FLUID RESISTANCE, NO.1 OIL 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	-5/+10	-2
TENSILE STRENGTH CHANGE, %	-20	-6
ELONGATION CHANGE, %	-30	+45
VOLUME CHANGE, %	+/-5	+5

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

HARDNESS CHANGE, POINTS	-15	-15
TENSILE STRENGTH CHANGE, %	-30	-23
ELONGATION CHANGE, %	-30	-8
VOLUME CHANGE, %	+25	+25

LOW TEMPERATURE BRITTLENESS TEST

3 MINS @ -40°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: 16.07.2014