

Data Sheet: HNBR90 AED

MATERIAL: HYDROGENATED NITRILE 90 SHORE AED (NORSOK M-710 APPROVED) PEROXIDE CURED

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -40°C to +150°C (Static)
-15°C to +130°C (Dynamic)

SPECIFICATION: ASTM D2000 M4DH910 A26 B36 EO16 EO36 F17

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS, SHORE A	90+/-5	90
TENSILE STRENGTH, psi (MPa)	2900 (MIN)	4324(29.82)
ELONGATION, %	100 (MIN)	159
MODULUS @ 100% psi (MPa)	-	2557(17.63)
SPECIFIC GRAVITY	-	1.30

A26 HEAT AGEING 70hrs @ 150°C

HARDNESS CHANGE, POINTS	+10	+1
TENSILE STRENGTH CHANGE %	-15	-5
ELONGATION CHANGE %	-25	-11
WEIGHT CHANGE %		+0.5

B36 COMPRESSION SET 22 hrs @ 150°C, %	35% (plied)	29.5
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EO16 FLUID RESISTANCE, IRM 901 Oil 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	-5/+10	-1
TENSILE STRENGTH CHANGE %	-20	-9
ELONGATION CHANGE %	-30	-6
VOLUME CHANGE %	-10~+5	-0.8

EO36 FLUID RESISTANCE, IRM903 OIL 70hrs @150°C

HARDNESS CHANGE, POINTS	-15	-11
TENSILE STRENGTH CHANGE %	-40	-15
ELONGATION CHANGE %	-30	-17
VOLUME CHANGE %	+25	+11.9

F17 LOW TEMPERATURE BRITTLENESS POINT TEST

Sample type T-50

Coolant: Isopropyl alcohol

3mins @ -40°C	NO CRACKS	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: 08.03.2018