

Data Sheet: HNBR90 AED LT

MATERIAL: HYDROGENATED NITRILE 90 SHORE AED
 LOW TEMPERATURE – PEROXIDE CURED
 NORSOK M710 EDITION 3 & – ISO 23936-2
(RAPID GAS DECOMPRESSION RESISTANCE)

COLOUR: BLACK

COMPOUND H9120AA

GENERAL SERVICE TEMPERATURE RANGE: -55°C to +150°C (static)
 -40°C to +130°C (dynamic)

SPECIFICATION: ASTM D2000 M2DH920 F19 Z1 Z2 Z3 Z4 Z5

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHOREA	ASTM D2240-15	90±5	89
TENSILE STRENGTH, PSI (MPa)	ASTM D412-16	2900 (MIN)	3753 (25.88)
ELONGATION, %	ASTM D412-16	100 (MIN)	197
MODULUS AT 100%, PSI (MPa)	ASTM D412-16		2407 (16.6)
DENSITY, mg/m ³	CNS 5341-96, METHOD A		1.36

COMPRESSION SET

70 hrs @ 150°C	ASTM D395-03, METHOD B (PLIED)	68.4
168 hrs @ 150°C	ASTM D395-03, METHOD B (PLIED)	78.3

LOW-TEMPERATURE BRITTLENESS POINT TEST

3 MIN @ -55 °C	ASTM D2137-11, METHOD A		
SAMPLE TYPE: T-50			
COOLANT: ISOPROPYL ALCOHOL			
BRITTLENESS TEMPERATURE TO NEAREST 1°C		NO CRACK	PASS

LOW TEMPERATURE RETRACTION TEST

TESTING ELONGATION 50%		
THE EQUIPMENT OF MEASURE TEMPERATURE: THERMOCOUPLE		
LENGTH OF SAMPLE: 51 MM		
RATE OF TEMPERATURE INCREASING: 1°C/MIN		
TEST TEMPERATURE: 26 °C		
COOLANT: METHANOL		
TR10, °C	ASTM D1329-08	-34.3

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

Data Sheet: HNBR90 AED LT

Issue Date: 14.06.2018