

Data Sheet: HNBR80

MATERIAL: HYDROGENATED NITRILE 80 SHORE

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000-M3DH810 A26 B16 EO16 EO36 F17

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	80+/-5	81
TENSILE STRENGTH, psi	1450	3560
ELONGATION %	175	227
HEAT AGEING 70 hrs @ 150°C		
HARDNESS CHANGE, POINTS	+10	+5
TENSILE STRENGTH CHANGE %	-25	-5
ELONGATION CHANGE %	-30	-29
COMPRESSION SET		
22 hrs @ 150°C %	+30	+15
FLUID RESISTANCE, No.1 Oil, 70 hrs @ 150°C		
HARDNESS CHANGE, POINTS	-5/+10	+4
TENSILE STRENGTH CHANGE %	-20	-2
ELONGATION CHANGE %	-30	-14
VOLUME CHANGE %	+/-5	-3.4
FLUID RESISTANCE, IRM903 OIL, 70 hrs @ 150°C		
HARDNESS CHANGE, POINTS	-15	-7
TENSILE STRENGTH CHANGE %	-30	-17
ELONGATION CHANGE %	-30	-16
VOLUME CHANGE %	-25	-13.4
LOW TEMPERATURE:		
Non Brittle after 3min @ -40°C	PASS	PASS

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

Issue Date: 27.05.2011