

Data Sheet: HNBR90PC

MATERIAL: HYDROGENATED NITRILE 90 SHORE PEROXIDE CURED

COLOUR: GREEN

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

SPECIFICATION: ASTM D2000 M3DH910 A26 B16 C12 EO16 Z1

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	90+/-5	86
TENSILE STRENGTH, psi	2900	3195
ELONGATION, %	100	195
SPECIFIC GRAVITY,		1.415
HEAT AGEING 22hrs @ 150°C		
HARDNESS CHANGE, POINTS	+10	+2
TENSILE STRENGTH CHANGE %	-25	+2
ELONGATION CHANGE %	-30	-15
COMPRESSION SET		
22 hrs @ 175°C, %	+30	+17
FLUID RESISTANCE, No.1 Oil, 70 hrs @ 150°C		
HARDNESS CHANGE, POINTS	-5/+10	+1
TENSILE STRENGTH CHANGE %	-20	+1
ELONGATION CHANGE %	-30	-7
VOLUME CHANGE %	+/-5	-1.7
FLUID RESISTANCE, IRM903 OIL, 70 hrs @ 150°C		
HARDNESS CHANGE, POINTS	-15	-5
TENSILE STRENGTH CHANGE %	-30	-7
ELONGATION CHANGE %	-30	-9
VOLUME CHANGE %	+25	+11.4
OZONE RESISTANCE, 50pphm 70 hrs @ 40°C		
	No Crack	Pass
LOW TEMPERATURE BRITTLENESS		
Non brittle after 3min @ -40°C		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