

Data Sheet: HNBR70

MATERIAL: HYDROGENATED NITRILE 70 SHORE

COLOUR: GREEN

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

SPECIFICATION: ASTM D2000 M3DH714 A26 B16 EO16 EO36 F17

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	71
TENSILE STRENGTH, psi	2031	2200
ELONGATION %	250	330
SPECIFIC GRAVITY		1.31
HEAT AGEING @ 70 hrs @ 150°C		
HARDNESS CHANGE, POINTS	+10	+3
TENSILE STRENGTH CHANGE %	-25	+15
ELONGATION CHANGE %	-30	-19
COMPRESSION SET		
22 hrs @ 175°C, %	+30	+22
FLUID RESISTANCE, No.1 Oil, 70 hrs @ 150°C		
HARDNESS CHANGE, POINTS	+5/+10	-2
TENSILE STRENGTH CHANGE %	-20	+5
ELONGATION CHANGE %	-30	-20
VOLUME CHANGE %	+/-5	+2
FLUID RESISTANCE, No.3.OIL, 70 hrs @150°C		
HARDNESS CHANGE, POINTS	-15	-9
TENSILE STRENGTH CHANGE %	-30	-12
ELONGATION CHANGE %	-30	-16
VOLUME CHANGE %	+25	+15
LOW TEMPRATURE: 3 Min @ -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