

# Data Sheet: HNBR80

## MATERIAL: HYDROGENATED NITRILE 80 SHORE

COLOUR: GREEN

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

SPECIFICATION: ASTM D2000 M3 DH810 A26 B36 EO16 EO36

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	80+/-5	82
TENSILE STRENGTH, psi	1450	2105
ELONGATION %	175	250
SPECIFIC GRAVITY		1.44
<b>HEAT AGEING 70hrs @ 150°C</b>		
HARDNESS CHANGE, POINTS	+10	+3
TENSILE STRENGTH CHANGE %	-25	+16
ELONGATION CHANGE %	-30	-20
<b>COMPRESSION SET</b>		
22hrs @ 150°C %	50	38
<b>FLUID RESISTANCE, No.1 Oil, 70hrs @ 150°C</b>		
HARDNESS CHANGE, POINTS	+5/+10	-1
TENSILE STRENGTH CHANGE %	-20	+7
ELONGATION CHANGE %	-30	-15
VOLUME CHANGE %	+25	+15
<b>FLUID RESISTANCE, No.3.OIL, 70hrs @ 150°C</b>		
HARDNESS CHANGE, POINTS	-15	-6
TENSILE STRENGTH CHANGE %	-30	-9
ELONGATION CHANGE %	-30	-15
VOLUME CHANGE %	+25	+15

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

Issue Date: 27.05.2011