

# Data Sheet: N90H (High ACN Content)

MATERIAL: NITRILE 90 SHORE - HIGH NITRILE -45.7% ACN CONTENT

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -35°C to 110°C

SPECIFICATION: ASTM M6BG910 A14 B14 EO14 EO34

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	90+/-5	86
TENSILE STRENGTH, MPa	10	16.8
ELONGATION, %	100	157
SPECIFIC GRAVITY		1.216
<b>HEAT AGEING 70 hrs @ 100°C</b>		
HARDNESS CHANGE, POINTS	+/-15	+2
TENSILE STRENGTH CHANGE %	+/-20	+5
ELONGATION CHANGE %	-40	-10
<b>COMPRESSION SET</b>		
HEAT AGEING 22 hrs @ 100°C %	25	16
<b>FLUID RESISTANCE, NO.1 OIL. 70 hrs @100°C</b>		
HARDNESS CHANGE, POINTS	-5/+15	+7
TENSILE STRENGTH CHANGE %	-25	+6
ELONGATION CHANGE %	-45	-11
VOLUME CHANGE %	-10/+5	+4
<b>FLUID RESISTANCE, IRM903 OIL. 70 hrs @ 150°C</b>		
HARDNESS CHANGE, POINTS	0/-20	-9
TENSILE STRENGTH CHANGE %	-45	-12
ELONGATION CHANGE %	-45	+21
VOLUME CHANGE %	0/+35	+20

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

Issue Date: 16.04.2015