

# Data Sheet: NP70

## MATERIAL: NEOPRENE 70 SHORE (GENERAL PURPOSE)

COLOUR: BLACK

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

SPECIFICATION: ANSI D2000-80: M3BC714A14B14C12EO14EO34F17 Z1=Elongation 250%

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	67
TENSILE STRENGTH, psi	2030	2108
ELONGATION, %	250	272
<b>HEAT AGEING 70 hrs @ 100°C</b>		
HARDNESS CHANGE, POINTS	+15	+12
TENSILE STRENGTH CHANGE, %	-15	-5
ELONGATION CHANGE, %	-40	-21
<b>COMPRESSION SET</b>		
22 hrs @ 100°C, %	35	22
<b>OZONE RESISTANCE, 50PPHM 70 hrs @ 40°C</b>		
RETENTION RATING, MIN %	PASS	PASS
<b>FLUID RESISTANCE, No.1 Oil 70 hrs @ 150°C</b>		
HARDNESS CHANGE, POINTS	+/-10	+8
TENSILE STRENGTH CHANGE %	-30	0
ELONGATION CHANGE %	-30	-24
VOLUME CHANGE %	-10/+15	-2.3
<b>FLUID RESISTANCE, No.3.OIL, 70 hrs @150°C</b>		
HARDNESS RESISTANCE, POINTS	NIL	-23
TENSILE STRENGTH CHANGE %	-60	-36
ELONGATION CHANGE %	-50	-25
VOLUME CHANGE %	+100	+57
<b>LOW TEMPERATURE</b>		
NON BRITTLE AFTER 3 min @ -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