

Data Sheet: N70

MATERIAL: NITRILE 70 SHORE (NBR 70)

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000 M2BG715 B14 A14 EO14 EO34 Z Z1

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	D 2240	70+/-5	66
TENSILE STRENGTH, MPa	D 412	10	14.0
ELONGATION, %	D 412	250	430
SPECIFIC GRAVITY	D 297		1.23
MODULUS 100% ELONGATION psi	D 412		348
CURE SYSTEM (Z)			SULPHUR

A14 HEAT AGEING 70hrs @ 100°C

HARDNESS CHANGE, POINTS	D 573	+/-15	+6
TENSILE STRENGTH CHANGE, %	D 573	+/-30	+4
ELONGATION CHANGE, %	D 573	-50	-11

B14 COMPRESSION SET, METHOD B

22hrs @ 100°C %	D 395	25	12
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EA14 WATER RESISTANCE, 70hrs @ 100°C

HARDNESS CHANGE, POINTS	D 471	+/-10	-4
VOLUME CHANGE, %	D 471	+/-10	+6

EO14 FLUID RESISTANCE, IRM 901 Oil. 70hrs @ 100°C

HARDNESS CHANGE, POINTS	D 471	-5/+10	+4
TENSILE STRENGTH CHANGE, %	D 471	-25	-8
ELONGATION CHANGE, %	D 471	-45	-7
VOLUME CHANGE, %	D 471	-10/+5	-8

EO34 FLUID RESISTANCE, IRM 903 OIL. 70hrs @ 100°C

HARDNESS CHANGE, POINTS	D 471	-10/+5	-3
TENSILE STRENGTH CHANGE, %	D 471	-45	-24
ELONGATION CHANGE, %	D 471	-45	-13
VOLUME CHANGE, %	D 471	0/+25	+11

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

Issue Date: 14.06.2014