

Data Sheet: N90 FDA

MATERIAL: NITRILE 90 SHORE FDA
(COMPLIES WITH FDA REGULATION 21 CFR177.2600)

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000 6BG910 A14 B14 EO14 EO34 EF11 EF21

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	90+/-5	87
TENSILE STRENGTH, MPa	10	16.5
ELONGATION, %	100	158
SPECIFIC GRAVITY		1.287

HEAT AGEING 70 hrs @ 100°C

HARDNESS CHANGE, POINTS	+15	+5
TENSILE STRENGTH CHANGE, %	-20	-3
ELONGATION CHANGE, %	-40	-22

COMPRESSION SET

HEAT AGEING 22 hrs @ 100°C %	+25	18
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FLUID RESISTANCE, NO.1 OIL. 70 hrs @ 100°C

HARDNESS CHANGE, POINTS	-5/+15	+0
TENSILE STRENGTH CHANGE, %	-25	+8
ELONGATION CHANGE, %	-45	-14
VOLUME CHANGE, %	-10/+5	-4

FLUID RESISTANCE, NO.3.OIL. 70 hrs @150°C

HARDNESS CHANGE, POINTS	0/-20	-4
TENSILE STRENGTH CHANGE, %	-45	-8
ELONGATION CHANGE, %	-45	-11
VOLUME CHANGE, %	0/+35	+9

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

Issue Date: 01.05.2012