

Data Sheet: N70 FDA

MATERIAL: NITRILE 70 SHORE FDA (COMPLIANT TO FDA REGULATION CFR 21 177-2600)

COLOUR: WHITE

GENERAL SERVICE TEMPERATURE RANGE: -35°C to +125°C

SPECIFICATION: ASTM D2000 M2BG708 A14 B14 EA14 EF11 EF21 EO14 EO34 Z1

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS SHORE A		70+/-5	71
TENSILE STRENGTH, psi		1160	1759
ELONGATION %		200	517
SPECIFIC GRAVITY		-	1.438
HEAT AGEING 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS	ASTM D573	+/-15	+1
TENSILE STRENGTH CHANGE %	ASTM D573	+/-30	-1
ELONGATION CHANGE %	ASTM D573	-50	-12
COMPRESSION SET			
22 hrs @ 100°C %	ASTM D395	25	14
WATER RESISTANCE, 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS	ASTM D471	+/-10	-1
VOLUME CHANGE %	ASTM D471	+/-15	+6.6
FLUID RESISTANCE, Fuel A, 70 hrs @ 23°C			
HARDNESS CHANGE, POINTS	ASTM D471	+/-10	-4
TENSILE STRENGTH CHANGE	ASTM D471	-25	-16
ELONGATION CHANGE %	ASTM D471	-25	-11
VOLUME CHANGE %	ASTM D471	-5/+10	+3.7
FLUID RESISTANCE, Fuel B, 70 hrs @ 23°C			
HARDNESS CHANGE, POINTS	ASTM D471	-30/+0	-16
TENSILE STRENGTH CHANGE	ASTM D471	-60	-46
ELONGATION CHANGE %	ASTM D471	-60	-39
VOLUME CHANGE %	ASTM D471	0/+40	+24.3
FLUID RESISTANCE, No.1 Oil, 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS	ASTM D471	-5/+10	+4
TENSILE STRENGTH CHANGE %	ASTM D471	-25	+6
ELONGATION CHANGE %	ASTM D471	-45	-13
VOLUME CHANGE %	ASTM D471	-10/+5	-4.8

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PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
FLUID RESISTANCE, No.3.OIL, 70 hrs @ 100°C			
HARDNESS RESISTANCE, POINTS	ASTM D471	-10/+5	-5
TENSILE STRENGTH CHANGE %	ASTM D471	-45	0
ELONGATION CHANGE %	ASTM D471	-45	-8
VOLUME CHANGE %	ASTM D471	0/+25	+6.4

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

Issue Date: 23.01.2013