

Data Sheet: N80

MATERIAL: NITRILE 80 SHORE

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000 M7BG810 A14 B14 EA14 EO14 EO34

PHYSICAL PROPERTIES	ASTM METHOD	REQUIREMENT	RESULT
HARDNESS SHORE A	ASTM D 2240	80 ± 5	82
TENSILE STRENGTH, MPa	ASTM D 412	10	16.3
ELONGATION, %	ASTM D 412	125	216
SPECIFIC GRAVITY	ASTM D 297		1.31
A14 HEAT AGEING 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS	ASTM D 573	±5	+3
TENSILE STRENGTH CHANGE, %	ASTM D 573	± 30	+6
ELONGATION CHANGE, %	ASTM D 573	-50	-12
B14 COMPRESSION SET, 22 hrs @ 100°C, METHOD B, %			
	ASTM D 395	25	11
EA14 WATER RESISTANCE, 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS	ASTM D 471	± 10	-4
VOLUME CHANGE, %	ASTM D 471	± 15	+8
EO14 FLUID RESISTANCE, IRM 901 Oil. 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS		-5/+10	+2
TENSILE STRENGTH CHANGE, %		-25	-2
ELONGATION CHANGE, %		-45	-15
VOLUME CHANGE, %		-10/+5	-5
EO34 FLUID RESISTANCE, IRM 903 OIL. 70 hrs @100°C			
HARDNESS CHANGE, POINTS	ASTM D 471	-0/-20	-5
TENSILE STRENGTH CHANGE, %	ASTM D 471	-45	+2
ELONGATION CHANGE, %	ASTM D 471	-45	-11
VOLUME CHANGE, %	ASTM D 471	0/+35	+10

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

Issue Date: 04.05.2016