M SEALS
- Part of Diploma PLC

www.m-seals.com

NITRILE 80

SPECIFICATION – ASTM D2000 M6BG814 A14 B14 EO14 EO34 EF11 EF21 F16	Test Result	Requirements
Physical Properties		
Press Cure at 170ºC for 10 mins		
Post Cure at 120ºC for 1 hour		
Hardness, shore A	82	80 +/-5
Tensile, strength, MPa	16.1	14
Elongation, %, min	249	125
Specific Gravity	1.298	
Heat Ageing at 100ºC for 70 hrs		
Hardness Change, points	+1	+15
Tensile Change, %	+4	-20
Elongation Change, %	-6	-40
Compression Set		
Press Cure at 170ºC for 12 mins		
Post Cure at 120ºC for 1 hr		
Heat Ageing at 100ºC for 22 hrs	9	25
ASTM No.1 Oil Immersion at 100ºC for 70 hrs		
Hardness Change, points	+5	-5~+15
Tensile change, %	+6	-25
Elongation change, %	-18	-45
Volume Change, %	-6	-10~+5
ASTM IRM 903 Oil Immersion at 100ºC for 70 hrs		
Hardness Change, points	-2	0~-20
Tensile change, %	+6	-45
Elongation change, %	-8	-45
Volume change, %	+4	0~+35
Fuel A Resistance at 23ºC for 70 hrs		
Hardness Change, points	-5	+/-10
Tensile change, %	-15	-25
Elongation change, %	-14	-25
Volume change, %	+7	-5~+10

The above tests were carried out with a test piece and the results are for your reference only.

NITRILE 80 (continued)

SPECIFICATION – ASTM D2000 M6BG814 A14 B14 EO14 EO34 EF11 EF21 F16	Test Result	Requirements
Fuel B Resistance at 23ºC for 70 hrs		
Hardness Change, points	-15	0~-30
Tensile change, %	-32	-60
Elongation change, %	-27	-60
Volume change, %	+27	0~+40
Low Temperature Brittleness		
After 3 minutes at -30ºC	Non-brittle	

The above tests were carried out with a test piece and the results are for your reference only.