

VN801 (FKM)

Material Properties

Specification: ASTM D2000 M2HK810 A1-10 B38 EO16 EO36 EF31 F15

Recommended Service Temperature: -20 F to 400 F (-29 C to 204 C)

Original Properties	Specification	VN801
Hardness, Shore A	80±5	80
Tensile Strength, psi	1450 (min)	2014
Ultimate Elongation, %	150 (min)	172
Tear Strength (kg/cm)	25 (min)	36
Specific Gravity	2.18±0.02	2.18

Heat Resistance - A1-10 (70 hrs @ 250 C)

Hardness Change, points	+10 (max)	+5
Tensile Strength Change, %	-25 (max)	+26
Elongation Change, %	-25 (max)	-20
Volume Change, %		-4

Compression Set, % - B38 (22 hrs @ 200 C)

Permanent Set, %	+50 (max)	+10
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Fluid Resistance, ASTM #1 Oil - EO16 (70 hrs @ 150 C)

Hardness Change, points	-5 to +10	+2
Tensile Strength Change, %	-20 (max)	+6
Elongation Change, %	-30 (max)	+5
Volume Change, %	-5 to +5	-1

Fluid Resistance, IRM 903 Oil - EO36 (70 hrs @ 150 C)

Hardness Change, points	-15 (max)	+1
Tensile Strength Change, %	-40 (max)	-3
Elongation Change, %	-40 (max)	+5
Volume Change, %	+25 (max)	+1

Fluid Resistance, ASTM Fuel C - EF31 (70 hrs @ 23 C)

Hardness Change, points	-5 to +5	-1
Tensile Strength Change, %	-25 (max)	-8
Elongation Change, %	-20 (max)	-3
Volume Change, %	0 to +10	+3

Low Temperature Resistance - F15 (3 min @ -25 C)

Brittleness	Non-brittle	Pass
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