

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

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

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate product performance. Full scale testing and product performance are the responsibility of the user.



1087 Park Place, Shakopee, MN 55379
800-328-2840 • www.dichtomatik.us

**O-Rings • Rotary Shaft Seals • Fluid Power Seals • Custom Molded Shapes
Fitting & Fastener Seals • Spliced Rings & Extruded Cord**