GALLAGHER
Fluid Seals, Inc.
The Seal Specialist

NK701 (NBR) Material Properties

Specification: ASTM D2000 M2BG714 A14 B14 EO14 EO34 EF11 EF21 EA14 F17
Recommended Service Temperature: -40 F to 212 F (-40 C to 100 C)

Original Properties	Specification	NK701
Hardness, Shore A	70±5	71
Tensile Strength, psi	2031 (min)	2591
Ultimate Elongation, %	250 (min)	425
Tear Strength (kg/cm)	50 (min)	87
Specific Gravity	1.29±0.02	1.29
Heat Resistance - A14 (70 hrs @ 100 C)		
Hardness Change, points	±15 (max)	+10
Tensile Strength Change, %	±30 (max)	+13
Elongation Change, %	-50 (max)	-18
Volume Change, %		-6
Compression Set, % - B14 (22 hrs @ 100 C)		
Permanent Set, %	+25 (max)	+7
Fluid Resistance, ASTM #1 Oil - EO14 (70 hrs @ 100 C)		
Hardness Change, points	-5 to +10	+9
Tensile Strength Change, %	-25 (max)	+12
Elongation Change, %	-45 (max)	-15
Volume Change, %	-10 to +5	-4
Fluid Resistance, IRM 903 Oil - EO34 (70 hrs @ 100 C)		
Hardness Change, points	-10 to +5	-1
Tensile Strength Change, %	-45 (max)	+9
Elongation Change, %	-45 (max)	-12
Volume Change, %	0 to +25	+3
Fluid Resistance, ASTM Fuel A - EF11 (70 hrs @ 23 C)		
Hardness Change, points	±10 (max)	+2
Tensile Strength Change, %	-25 (max)	-2
Elongation Change, %	-25 (max)	-5
Volume Change, %	-5 to +10	0
Fluid Resistance, ASTM Fuel B - EF21 (70 hrs @ 23 C)		
Hardness Change, points	0 to -30	-8
Tensile Strength Change, %	-60 (max)	-21
Elongation Change, %	-60 (max)	-22
Volume Change, %	0 to +40	+14
Water Resistance - EA14 (70 hrs @ 100 C)		
Hardness Change, points	±10 (max)	-3
Tensile Strength Change, %		+5
Elongation Change, %		-8
Volume Change, %	±15 (max)	+7
Low Temperature Resistance - F17 (3 min @ -40 C)		
Brittleness	Non-brittle	Pass

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