

The O-Ring Store LLC



We make getting o-rings easy!

BUNA-N 70 DUROMETER DATA SHEET FOR COMPOUND B70

Compound Features:

- Excellent resistance to petroleum products.
- Excellent water resistance.
- Resistance to ethylene glycol fluids.
- Works well with silicone grease or oil lubricants.
- Good low temperature flexibility.
- Good abrasion and wear resistance.
- Good compression set.
- Good Permeation resilience.

Compound Limitations:

- Poor resistance to UV/sunlight, ozone, and weathering.
- Halogenated hydrocarbons.
- Poor resistance to ketones (MEK) and other strong solvents.
- Poor resistance to strong acids.
- Poor resistance to automotive and aircraft brake fluids.

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

ASTM Callout:

ASTM D2000-99 Grade M2BG714 B14 EO14 EO34 Z1=TR10=-30°C

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| ORIGINAL PROPERTIES | | | | | |
|-----------------------|------------------|-------------|-----------------|--------------------------|------------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | B70 METRIC Compound Property |
| Durometer | - | D2240-10 | Shore A | 70± 5 | 68 |
| Tensile Strength | | D412-13 | MPa | 14 | 15.6 |
| Elongation Resistance | | D412-13 | % | 250 | 412 |
| Specific Gravity | | D297-13 | - | - | 1.23 |

| HEAT AGE | | | | | |
|------------------------------|------------------|-------------------------------------|-----------------|--------------------------|------------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | B70 METRIC Compound Property |
| Durometer Change | - | ASTM D573-10 70 Hours @ 100°C | Shore A | ±15 | +4 |
| Tensile Strength Change | | | % | +11 | +11 |
| Elongation Resistance Change | | | % | -50 | -15 |

| COMPRESSION SET | | | | | |
|---------------------|------------------|-------------------------------------|-----------------|--------------------------|------------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | B70 METRIC Compound Property |
| Original Deflection | B14 | ASTM D395-08 22 Hours @ 100°C | % | 25 Max | 12 |

| IRM903 OIL RESISTANCE | | | | | |
|------------------------------|------------------|--------------------------------------|-----------------|--------------------------|------------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | B70 METRIC Compound Property |
| Durometer Change | EO14 | ASTM D471-12A 70 Hours @ 100°C | Shore A | -5 to +10 | +5 |
| Tensile Strength Change | | | % | -25 | +4 |
| Elongation Resistance Change | | | % | -45 | -16 |
| Change in Volume | | | % | -10 to +5 | +4 |

| RIM903 OIL RESISTANCE | | | | | |
|------------------------------|------------------|--------------------------------------|-----------------|--------------------------|------------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | B70 METRIC Compound Property |
| Durometer Change | EO34 | ASTM D471-12A 70 Hours @ 100°C | Shore A | -10 to +5 | -3 |
| Tensile Strength Change | | | % | +3 | +3 |
| Elongation Resistance Change | | | % | -22 | -22 |
| Change in Volume | | | % | 0 to +25 | +15 |

Information within is believed to be accurate and reliable. However, The O-Ring Store, LLC makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate the material prior to use.

1847 Wilma DR - Clarkston, WA 99403 | Phone (208) 413-6377 Fax (208) 413-6719

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| TR-10 LOW TEMPERATURE RESISTANCE | | | | | |
|----------------------------------|------------------|-------------|-----------------|--------------------------|------------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | B70 METRIC Compound Property |
| Original Deflection | Z1 | TR-10 | -30°C | - | -30°C |

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