

The O-Ring Store LLC



We make getting o-rings easy!

NEOPRENE 70 DUROMETER DATA SHEET FOR COMPOUND C70

Compound Features:

- Excellent resistance to refrigerants (Freon).
- Excellent resistance ammonia.
- Excellent water resistance.
- Moderate compression set resistance.
- Resistance to ethylene glycol fluids.
- Works well with silicone grease or oil lubricants.
- Good low temperature flexibility.
- Good 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 automotive and aircraft brake fluids.

Temperature Range:

-40°F to +257°F (-40°C to +125°C)

ASTM Callout:

ASTM D2000 M3BC710 A14 B14 EO14 EO34 F17

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	C70 Compound Property
Durometer	-	-	Shore A	70± 5	68
Tensile Strength			Psi	1450 Min	2124
Elongation Resistance			%	250 Min	255

HEAT RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	C70 Compound Property
Durometer Change	-	ASTM D573 70 Hours @ 100°C	Shore A	+15 Max	+90
Tensile Strength Change			%	-50	-3
Elongation Resistance Change			%	-40	-15

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	C70 Compound Property
Original Deflection	B14	ASTM D395 B 22 Hours @ 100°C	%	35 Max	18

IRM 901 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	C70 Compound Property
Durometer Change	-	ASTM D471 70 Hours @ 100°C	Shore A	±10	+6
Tensile Strength Change			%	-30	-11
Elongation Resistance Change			%	-30	-23
Change in Volume			%	-10 to +15	-7

IRM 903 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	C70 Compound Property
Tensile Strength Change	-	ASTM D471 70 Hours @ 100°C	%	-60	-49
Elongation Resistance Change			%	-50	-38
Change in Volume			%	+100	+58

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.

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TR-10 LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	C70 Compound Property
Brittleness	-	D 2137 3 Minutes @ -40° C	Pass/Fail	Non-Brittle	Pass

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