

The O-Ring Store LLC



We make getting o-rings easy!

HNBR GREEN 70 DUROMETER DATA SHEET FOR COMPOUND H70

Compound Features:

- Excellent resistance to R134a Refrigerants.
- Excellent resistance to petroleum products.
- Excellent water resistance.
- Excellent compression set 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:

-25°F to +300°F (-40°C to +148.9°C)

ASTM Callout:

ASTM D2000 M4DH716 A26 B36 EO16 EO36 F17 Z1 Z2

Z1=GREEN COLOR

Z2=AUTOMOTIVE A/C REFRIGERANT RESISTANCE

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	H70 Compound Property
Durometer	-	-	Shore A	70± 5	72
Tensile Strength			MPa	2321	2956
Elongation Resistance			%	250	334

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	H70 Compound Property
Durometer Change	A26	ASTM D573 70 Hours @ 150°C	Shore A	+10	+3
Tensile Strength Change			%	-15	-1
Elongation Resistance Change			%	-25	-10

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	H70 Compound Property
Original Deflection	B36	ASTM D395 22 Hours @ 150°C	%	35 Max	16

OIL RESISTANCE - IRM 901 OIL					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	H70 Compound Property
Durometer Change	EO16	ASTM D471 70 Hours @ 150°C	Shore A	-5 to +10	+1
Tensile Strength Change			%	-20	+10
Elongation Resistance Change			%	-30	-9
Change in Volume			%	-10 to +5	-3

OIL RESISTANCE - IRM 903 OIL					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	H70 Compound Property
Durometer Change	EO36	ASTM D471 70 Hours @ 150°C	Shore A	-15	-7
Tensile Strength Change			%	-4	-5
Elongation Resistance Change			%	-30	-17
Change in Volume			%	+25	+10

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	H70 Compound Property
Brittleness	F17	ASTM D2137 A 3 Min @ -40°C	Pass/Fail	Non-Brittle	Pass

FLUID RESISTANCE - REFRIGERANT – 95% R134A , 5% PAG OIL					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	H70 Compound Property
Durometer Change	Z1	168 Hours @ 23°C	Shore A	-	-3
Tensile Strength Change			%	-	-7
Elongation Resistance Change			%	-	-9
Change in Volume			%	-	+4

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