

The O-Ring Store LLC



We make getting o-rings easy!

SILICONE FDA 70 DUROMETER

DATA SHEET FOR COMPOUND S70 METRIC

Compound Features:

- FDA compliant material.
- Odorless and non-toxic.
- Broad temperature range -80°F to +400°F (-62°C to +204°C).
- Excellent dry heat resistance.
- Excellent resistance to sun/UV light, ozone, and weathering.
- Excellent compression set resistance.
- Excellent permeation resistance.

Compound Limitations:

- Limited to static sealing applications.
- Not recommended for use with ketones (MEK), acids, silicone oils, and brake fluids.
- Poor wear and abrasion resistance.
- Easily cut or sliced on sharp machined edges.
- Poor short term resilience.

ASTM Callout:

ASTM D2000 MBGE606 A19 B37 EA14 EO36 F19 Z

Z = *FDA per CFR 177.2600*

The O-Ring Store LLC



We make getting o-rings easy!

ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	S70 Compound Property
Durometer	-	D2240-10	Shore A	70± 5	70
Tensile Strength		D412-13	PSI	6 Min	6.9
Elongation Resistance		D412-13	%	150 Min	269
Specific Gravity		D297-13	-	-	1.38

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	S70 Compound Property
Durometer Change	A1-10	ASTM D573-10 70 Hours @ 225°C	Shore A	+10 Max	+0
Tensile Strength Change			%	-17 Max	-17
Elongation Resistance Change			%	-30 Max	-12

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	S70 Compound Property
Original Deflection	B37	ASTM D395-08 B 22 Hours @ 175°C	%	50 Max	15

WATER RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	S70 Compound Property
Durometer Change	EA14	ASTM D395-08 70 Hours @ 100°C	Shore A	±5	-2
Change in Volume			%	±5	+3

IRM901 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	S70 Compound Property
Durometer Change	EO16	ASTM D471-12A 70 Hours @ 100°C	Shore A	0 to -15	-3
Tensile Strength Change			%	-20 Max	-1
Elongation Resistance Change			%	-20 Max	+11
Change in Volume			%	0 to +15	+5

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

The O-Ring Store LLC



We make getting o-rings easy!

RIM903 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	S70 Compound Property
Durometer Change	EO36	ASTM D471-12A 70 Hours @ 100°C	Shore A	-35	-16
Change in Volume			%	+60	+36

LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	S70 Compound Property
Brittleness	F19	D2137-11 3 min @ -55°C	Pass/Fail	Pass	Pass

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