Compound

19701

SILICONE
70 DUROMETER
RUST RED COLOR

PRODUCT DATA SHEET

Compound 19701 is a 70 durometer rust red colored Silicone elastomer, it exhibits excellent low temperature flexibility. It has good resistance to heat and compression set.

This compound will meet or exceed the specifications listed and has the following physical properties:

ASTM D2000 6 GE 705 A19 B37 EO16 F19 G11 EA14
7 GE 707 A19 B37 EO16 F19 G11 EA14
5 GE 709 A19 B37 EO16 F19 G11 EA14

ZZ-R-765 Class 1a & 1b, 2a & 2b Grade 70
A-A-59588 Class 1a & 1b, 2a & 2b Grade 70
AMS 3337

Original Properties

Modulus @ 100% Elongation		459	psi		3.2	MPa
Tensile Strength		949	psi		6.5	MPa
Ultimate Elongation		207	%			
Hardness, Shore A		69	Durometer			
Specific Gravity		1.54	grams/cc			
Brittleness Temperature	<	-132	°F	<	-91	°C
Tear Resistance, Die B		78	ppi		13.7	kN/m
Tear Resistance, Die C		68	ppi		11.9	kN/m

Compression Set

Solid: 22 hrs @ 347°F (175°C)	9.1 %
Solid: 70 hrs @ 302°F (150°C)	10.1 %
Plied: 22 hrs @ 347°F (175°C)	16.9 %
Plied: 70 hrs @ 302°F (150°C)	14.5 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 1.7 %
Change - Elongation	- 22.2 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength	+ 0.6 %
Change - Elongation	- 20.8 %
Change - Hardness, Shore A	+ 4

HEAT AGED: 22 hrs @ 437°F (225°C)

Change - Tensile Strength	- 0.6 %
Change - Elongation	- 14.5 %
Change - Hardness, Shore A	+ 2

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com

Compound

19701

SILICONE
70 DUROMETER
RUST RED COLOR

PRODUCT DATA SHEET

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)	
Change - Hardness, Shore A	0
Change - Volume	+ 1.1 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	- 4.3 %
Change - Elongation	- 5.3 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 4.8 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 11.8 %
Change - Elongation	- 15.5 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 6.3 %

ASTM OIL #1: 70 hrs @ 347°F (175°C)	
Change - Tensile Strength	- 9.0 %
Change - Elongation	- 1.9 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 7.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)	
Change - Hardness, Shore A	- 21
Change - Volume	+ 53.2 %

OZONE: 168 hrs @ 50 mPA - ASTM D1149,D518 METHOD A	
NO CRACKING	PASS

TORSIONAL STIFFNESS: 72 hrs @ -75°C	
TSR	1.4

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com