Compound

5751

NITRILE-BUTADIENE
70 DUROMETER
ORANGE COLOR

PRODUCT DATA SHEET

Compound 5751 is a 70 durometer orange colored Buna N elastomer. It exhibits good physicals and good resistance to petroleum based oils at moderate temperature.

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

ASTM D2000 2 BF 720 EO14 EO34

2 BG 720 EF11 EO14 EO34
3 BG 720 B14 EO14
4 BG 720 B14 EO14
5 BG 720 A14 EO14 EO34

4 BK 720 A24 EF11

Original Properties

Modulus @ 100% Elongation	379	psi	2.6	MPa
Tensile Strength	2291	psi	15.8	MPa
Ultimate Elongation	868	%		
Hardness, Shore A	69	Durometer		
Specific Gravity	1.38	grams/cc		
Brittleness Temperature	-12	°F	-24	°C
Tear Resistance, Die B	153	ppi	26.8	kN/m
Tear Resistance, Die C	208	ppi	36.4	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	39.6 %
Solid: 70 hrs @ 212°F (100°C)	51.9 %
Plied: 22 hrs @ 212°F (100°C)	46.2 %
Plied: 70 hrs @ 212°F (100°C)	60.4 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 11.3 %
Change - Elongation	- 17.6 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 38.5 %
Change - Elongation	- 69.9 %
Change - Hardness, Shore A	+ 4

HEAT AGED: 70 hrs @ 212°F (100°C) Test Tube

Change - Tensile Strength	- 11.3 %
Change - Elongation	- 17.6 %
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

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)

Change - Hardness, Shore A	- 12
Change - Volume	+ 8.8 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 5.0 %
Change - Elongation	- 6.9 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 2.2 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 64.3 %
Change - Elongation	- 38.3 %
Change - Hardness, Shore A	- 17
Change - Volume	+ 30.9 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 18.0 %
Change - Elongation	- 25.5 %
Change - Hardness, Shore A	0
Change - Volume	- 4.2 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 3.9 %
Change - Elongation	- 28.3 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 7.4 %

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