



Compound

5752NITRILE-BUTADIENE
70 DUROMETER
PURPLE COLOR**PRODUCT DATA SHEET**

Compound 5752 is a 70 durometer purple colored Buna N elastomer. It exhibits good physicals and good resistance to petroleum based oils at moderate temperatures.

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



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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 %