



Compound

**3762**NITRILE - BUTADIENE  
70 DUROMETER  
BLUE COLOR**PRODUCT DATA SHEET**

Compound 3762 is a 70 durometer blue colored general purpose Buna N elastomer. It exhibits good resistance to heat and petroleum based oils.

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 EO14 EO34 EF11 EA14  
3 BG 720 B14  
4 BG 720 B14 EO34  
5 BG 720 A14 EO14 EO34

**Original Properties**

Modulus @ 100% Elongation	467 psi	3.2 MPa
Tensile Strength	2084 psi	14.4 MPa
Ultimate Elongation	873 %	
Hardness, Shore A	72 Durometer	
Specific Gravity	1.38 grams/cc	
Brittleness Temperature	-8 °F	-22 °C
Tear Resistance, Die B	196 ppi	34.3 kN/m
Tear Resistance, Die C	249 ppi	43.6 kN/m

**Compression Set**

Solid: 22 hrs @ 212°F (100°C)	44.9 %
Solid: 70 hrs @ 212°F (100°C)	52.3 %
Plied: 22 hrs @ 212°F (100°C)	45.0 %
Plied: 70 hrs @ 212°F (100°C)	55.4 %

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 0.3 %
Change - Elongation	- 37.3 %
Change - Hardness, Shore A	+ 2

**HEAT AGED: 70 hrs @ 257°F (125°C)**

Change - Tensile Strength	- 16.7 %
Change - Elongation	- 48.1 %
Change - Hardness, Shore A	+ 3

**HEAT AGED: 70 hrs @ 257°F (125°C) Test Tube Method**

Change - Tensile Strength	- 16.7 %
Change - Elongation	- 48.1 %
Change - Hardness, Shore A	+ 3



Compound

**3762**

NITRILE - BUTADIENE  
70 DUROMETER  
BLUE COLOR

**PRODUCT DATA SHEET**

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

Change - Hardness, Shore A - 7  
Change - Volume + 7.2 %

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

Change - Tensile Strength - 10.9 %  
Change - Elongation - 31.8 %  
Change - Hardness, Shore A 0  
Change - Volume + 1.4 %

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

Change - Tensile Strength - 78.2 %  
Change - Elongation - 52.5 %  
Change - Hardness, Shore A - 14  
Change - Volume + 26.7 %

**ASTM OIL #1: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength + 9.4 %  
Change - Elongation - 30.8 %  
Change - Hardness, Shore A 0  
Change - Volume - 7.0 %

**ASTM OIL #3: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength + 1.6 %  
Change - Elongation - 36.4 %  
Change - Hardness, Shore A - 4  
Change - Volume + 2.7 %