



Compound

**5718****NITRILE - BUTADIENE  
70 DUROMETER  
BLACK - TEFLON FILLED****PRODUCT DATA SHEET**

Compound 5718 is a 70 durometer black colored Buna N elastomer, it is formulated with Teflon to provide internal lubrication. It exhibits good resistance to compression set as well as aromatic and non - aromatic fuels.

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

ASTM D2000 2 BF 712 B14 B34  
2 BG 712 B14 B34 EF11 EF21 EA14  
5 BG 710 A14 B14  
4 BK 712 B14 B34 EF11 EF21

**Original Properties**

Modulus @ 100% Elongation	589 psi	4.1 MPa
Tensile Strength	1421 psi	9.8 MPa
Ultimate Elongation	267 %	
Hardness, Shore A	74 Durometer	
Specific Gravity	1.41 grams/cc	
Brittleness Temperature	-11 °F	-24 °C
Tear Resistance, Die B	251 ppi	44.0 kN/m

**Compression Set**

Solid: 22 hrs @ 212°F (100°C)	12.5 %
Plied: 22 hrs @ 212°F (100°C)	23.7 %

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 16.9 %
Change - Elongation	- 20.2 %
Change - Hardness, Shore A	+ 12
Change - Weight	- 4.6 %

**HEAT AGED: 70 hrs @ 257°F (125°C)**

Change - Tensile Strength	+ 43.9 %
Change - Elongation	- 46.8 %
Change - Hardness, Shore A	+ 19
Change - Weight	- 6.4 %

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

Change - Tensile Strength	+ 43.9 %
Change - Elongation	- 46.8 %
Change - Hardness, Shore A	+ 19
Change - Weight	- 6.4 %



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70 DUROMETER  
BLACK - TEFLON FILLED****PRODUCT DATA SHEET****DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 10.1 %
Change - Elongation	- 18.7 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 10.9 %

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

Change - Tensile Strength	- 2.0 %
Change - Elongation	+ 1.5 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 0.8 %

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

Change - Tensile Strength	- 13.1 %
Change - Elongation	- 17.2 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 13.8 %

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

Change - Tensile Strength	+ 19.0 %
Change - Elongation	- 10.9 %
Change - Hardness, Shore A	+ 16
Change - Volume	- 8.0 %

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

Change - Tensile Strength	+ 14.6 %
Change - Elongation	- 14.2 %
Change - Hardness, Shore A	+ 7
Change - Volume	- 2.3 %

**Tear Resistance, Method D 624, Die B**

Tear Resistance	251.0 ppi
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