

Compound

3717NITRILE - BUTADIENE
70 DUROMETER
BLACK - MOLY FILLED**PRODUCT DATA SHEET**

Compound 3717 is a 70 durometer black colored Buna N elastomer, it is formulated with molybdenum disulfide to provide self lubrication. It exhibits good resistance to aromatic and aliphatic fuels.

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

ASTM D2000 2 BF 715 B14 B34 EO14

2 BG 715 B14 B34 EA14 EF11 EF21 EO14
5 BG 715 A14 B14 B34 EO14**This Compound is RoHS Compliant****Original Properties**

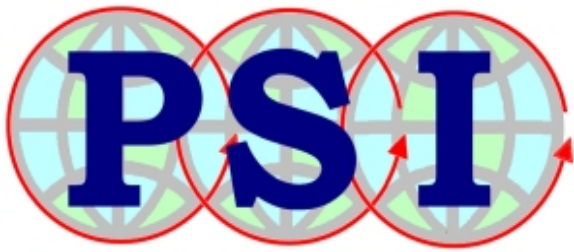
Modulus @ 100% Elongation	547 psi	3.8 MPa
Tensile Strength	1,648 psi	11.4 MPa
Ultimate Elongation	431 %	
Hardness, Shore A	74 Durometer	
Specific Gravity	1.39 grams/cc	
Brittleness Temperature	-17 °F	-27 °C
Tear Resistance, Die B	315 ppi	55.2 kN/m
Tear Resistance, Die C	249 ppi	43.6 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	8.1 %
Solid: 22 hrs @ 257°F (125°C)	10.7 %
Solid: 70 hrs @ 212°F (100°C)	12.2 %
Plied: 22 hrs @ 212°F (100°C)	22.2 %
Plied: 22 hrs @ 257°F (125°C)	23.0 %
Plied: 70 hrs @ 212°F (100°C)	23.5 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 15.8 %
Change - Elongation	- 28.1 %
Change - Hardness, Shore A	+ 12



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Change - Tensile Strength	+ 32.4 %
Change - Elongation	- 45.5 %
Change - Hardness, Shore A	+ 14

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

Change - Tensile Strength	+ 15.8 %
Change - Elongation	- 28.1 %
Change - Hardness, Shore A	+ 12

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

Change - Tensile Strength	+ 32.4 %
Change - Elongation	- 45.5 %
Change - Hardness, Shore A	+ 14

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

Change - Hardness, Shore A	- 2
Change - Volume	+ 7.7 %

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

Change - Tensile Strength	- 1.3 %
Change - Elongation	- 2.3 %
Change - Hardness, Shore A	0
Change - Volume	- 0.6 %

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

Change - Tensile Strength	- 15.2 %
Change - Elongation	- 16.2 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 15.9 %

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

Change - Tensile Strength	- 18.1 %
Change - Elongation	- 14.4 %
Change - Hardness, Shore A	- 14
Change - Volume	+ 26.6 %



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Change - Tensile Strength	+ 15.0 %
Change - Elongation	- 20.4 %
Change - Hardness, Shore A	+ 9
Change - Volume	- 7.3 %

ASTM OIL #1 (IRM 901): 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 27.5 %
Change - Elongation	+ 26.7 %
Change - Hardness, Shore A	+ 12
Change - Volume	- 6.6 %

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 26.6 %
Change - Elongation	- 53.4 %
Change - Hardness, Shore A	+ 14
Change - Volume	- 9.3 %

ASTM OIL #3 (IRM 903): 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 9.5 %
Change - Elongation	- 11.1 %
Change - Hardness, Shore A	+ 5
Change - Volume	- 0.4 %

ASTM OIL #3 (IRM 903): 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 24.8 %
Change - Elongation	- 35.7 %
Change - Hardness, Shore A	+ 7
Change - Volume	+ 0.9 %

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 18.0 %
Change - Elongation	- 42.7 %
Change - Hardness, Shore A	+ 7
Change - Volume	+ 1.2 %