

Compound

3757**NITRILE - BUTADIENE
70 DUROMETER
BLACK SELF-LUBRICATING****PRODUCT DATA SHEET**

Compound 3757 is a 70 durometer black colored Buna N elastomer, it is formulated with an organic lubricant to provide self lubrication. It exhibits good resistance to compression set.

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

ASTM D2000 2 BF 720 B14 B34 EO14 EO34
2 BG 720 B14 B34 EA14 EF11 EF21 EO14 EO34
3 BG 720 B14 EO14
4 BG 720 B14 EO14
5 BG 720 A14 B14 B34 EO14 EO34

This Compound is RoHS Compliant**Original Properties**

Modulus @ 100% Elongation	605 psi	4.2 MPa
Tensile Strength	2,263 psi	15.6 MPa
Ultimate Elongation	360 %	
Hardness, Shore A	72 Durometer	
Specific Gravity	1.21 grams/cc	
Brittleness Temperature	-33 °F	-36 °C
Tear Resistance, Die B	215 ppi	37.7 kN/m
Tear Resistance, Die C	226 ppi	39.6 kN/m

Compression Set

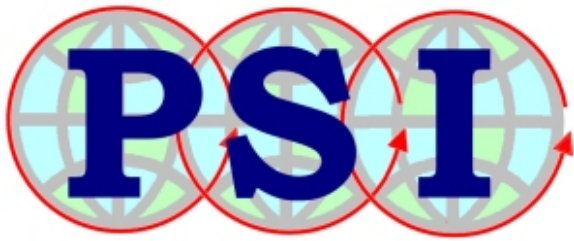
Solid: 22 hrs @ 212°F (100°C)	5.8 %
Solid: 70 hrs @ 212°F (100°C)	8.6 %
Plied: 22 hrs @ 212°F (100°C)	15.4 %
Plied: 70 hrs @ 212°F (100°C)	17.4 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 18.9 %
Change - Elongation	- 13.9 %
Change - Hardness, Shore A	+ 7

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 25.0 %
Change - Elongation	- 27.8 %
Change - Hardness, Shore A	+ 10



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BLACK SELF-LUBRICATING**PRODUCT DATA SHEET****HEAT AGED: 70 hrs @ 257°F (125°C) Test Tube Method**

Change - Tensile Strength	+ 25.0 %
Change - Elongation	- 27.8 %
Change - Hardness, Shore A	+ 10

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

Change - Hardness, Shore A	0
Change - Volume	+ 2.5 %

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

Change - Tensile Strength	- 5.0 %
Change - Elongation	- 8.3 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.9 %

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

Change - Tensile Strength	- 33.5 %
Change - Elongation	- 41.7 %
Change - Hardness, Shore A	- 11
Change - Volume	- 34.1 %

ASTM OIL #1 (IRM 901): 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 9.9 %
Change - Elongation	- 36.1 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 3.3 %

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

Change - Tensile Strength	+ 3.1 %
Change - Elongation	- 11.1 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 12.6 %

Tear Resistance, Method D 624, Die B

Tear Resistance	215.0 ppi
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Tear Resistance, Method D 624, Die C

Tear Resistance	226.0 ppi
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