



Compound

3405**NITRILE - BUTADIENE
40 DUROMETER
BLACK COLOR****PRODUCT DATA SHEET**

Compound 3405 is a 40 durometer black colored general purpose Buna N. It exhibits good resistance to compression set, petroleum - based oils and aliphatic fuels. This compound will remain non - brittle at low temperatures.

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

ASTM D2000 2 BG 410 B14 B34 EA14 EF11 EO34 F17
5 BG 410 A14 B14 EO34

Original Properties

Modulus @ 100% Elongation	113 psi	0.8 MPa
Tensile Strength	1278 psi	8.8 MPa
Ultimate Elongation	780 %	
Hardness, Shore A	44 Durometer	
Specific Gravity	1.16 grams/cc	
Brittleness Temperature	-62 °F	-52 °C
Tear Resistance, Die B	85 ppi	14.9 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	12.3 %
Solid: 70 hrs @ 212°F (100°C)	16.3 %
Plied: 22 hrs @ 212°F (100°C)	24.8 %
Plied: 70 hrs @ 212°F (100°C)	27.7 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 12.9 %
Change - Elongation	- 19.2 %
Change - Hardness, Shore A	+ 10

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

Change - Hardness, Shore A	- 2
Change - Volume	+ 7.9 %

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

Change - Tensile Strength	- 21.8 %
Change - Elongation	- 9.0 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.6 %

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

Change - Tensile Strength	- 65.7 %
Change - Elongation	- 56.4 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 30.1 %



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ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 32.2 %
Change - Elongation	- 9.0 %
Change - Hardness, Shore A	+ 7
Change - Volume	- 14.1 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 18.5 %
Change - Elongation	- 19.2 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 9.2 %

Tear Resistance, Method D 624, Die B

Tear Resistance	85.0 ppi
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