

Compound

3756NITRILE - BUTADIENE
70 DUROMETER
YELLOW COLOR**PRODUCT DATA SHEET**

Compound 3756 is a 70 durometer yellow 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 725 EO14 EO34
2 BG 725 EO14 EO34 EF11
3 BG 725 EO14
4 BG 720 A14 B14 EO14
5 BG 720 A14 EO14 EO34

This Compound is RoHS Compliant

Original Properties

Modulus @ 100% Elongation	278 psi	1.9 MPa
Tensile Strength	2,710 psi	18.7 MPa
Ultimate Elongation	657 %	
Hardness, Shore A	69 Durometer	
Specific Gravity	1.29 grams/cc	
Brittleness Temperature	2 °F	-17 °C
Tear Resistance, Die B	160 ppi	28.0 kN/m
Tear Resistance, Die C	183 ppi	32.0 kN/m

Compression Set

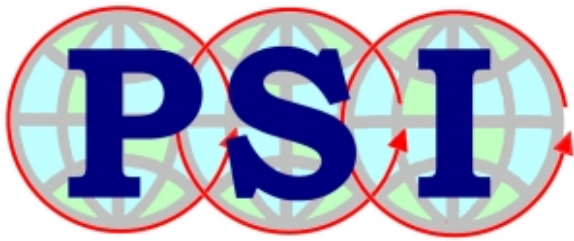
Solid: 22 hrs @ 212°F (100°C)	33.5 %
Solid: 70 hrs @ 212°F (100°C)	43.5 %
Plied: 22 hrs @ 212°F (100°C)	34.3 %
Plied: 70 hrs @ 212°F (100°C)	48.6 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 2.8 %
Change - Elongation	- 11.5 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 29.9 %
Change - Elongation	- 20.0 %
Change - Hardness, Shore A	+ 2



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Change - Hardness, Shore A	- 15
Change - Volume	+ 19.2 %

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

Change - Tensile Strength	- 8.2 %
Change - Elongation	+ 2.8 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.8 %

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

Change - Tensile Strength	- 71.9 %
Change - Elongation	- 21.1 %
Change - Hardness, Shore A	- 22
Change - Volume	+ 33.0 %

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

Change - Tensile Strength	+ 10.5 %
Change - Elongation	- 4.4 %
Change - Hardness, Shore A	- 4
Change - Volume	- 1.8 %

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

Change - Tensile Strength	- 4.2 %
Change - Elongation	- 3.0 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 6.4 %