

Compound
3726
NITRILE - BUTADIENE
70 DUROMETER
GRAY - FDA APPROVED MATERIAL
PRODUCT DATA SHEET

Compound 3726 is a 70 durometer gray colored Buna N elastomer, it is formulated with FDA approved materials.

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

ASTM D2000 2 BF 715 EO14 EO34
2 BG 715 EO14 EO34 EA14 EF11
5 BG 712 A14 EO14 EO34

This Compound is RoHS Compliant



Original Properties

Modulus @ 100% Elongation	311 psi	2.1 MPa
Tensile Strength	1,622 psi	11.2 MPa
Ultimate Elongation	621 %	
Hardness, Shore A	72 Durometer	
Specific Gravity	1.49 grams/cc	
Brittleness Temperature	-10 °F	-23 °C
Tear Resistance, Die B	157 ppi	27.5 kN/m
Tear Resistance, Die C	199 ppi	34.9 kN/m

Compression Set

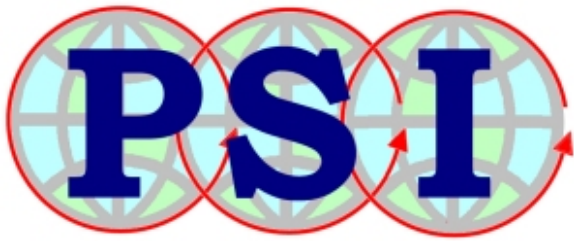
Solid: 22 hrs @ 212°F (100°C)	29.4 %
Solid: 22 hrs @ 257°F (125°C)	31.5 %
Solid: 70 hrs @ 212°F (100°C)	39.0 %
Plied: 22 hrs @ 212°F (100°C)	33.7 %
Plied: 22 hrs @ 257°F (125°C)	39.8 %
Plied: 70 hrs @ 212°F (100°C)	45.6 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 0.6 %
Change - Elongation	- 11.9 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 13.4 %
Change - Elongation	- 22.3 %
Change - Hardness, Shore A	+ 2



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

Change - Tensile Strength - 13.4 %
Change - Elongation - 22.3 %
Change - Hardness, Shore A + 2

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

Change - Hardness, Shore A - 3
Change - Volume + 5.9 %

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

Change - Tensile Strength - 3.3 %
Change - Elongation - 0.5 %
Change - Hardness, Shore A + 2
Change - Volume + 2.9 %

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

Change - Tensile Strength - 58.2 %
Change - Elongation - 19.9 %
Change - Hardness, Shore A - 18
Change - Volume + 31.7 %

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

Change - Tensile Strength + 1.5 %
Change - Elongation - 7.7 %
Change - Hardness, Shore A - 1
Change - Volume - 3.6 %

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

Change - Tensile Strength + 15.5 %
Change - Elongation - 0.5 %
Change - Hardness, Shore A - 8
Change - Volume + 7.3 %