



Compound

3825

NITRILE-BUTADIENE
80 DUROMETER - CREAM COLOR
FDA SANCTIONED MATERIALS

PRODUCT DATA SHEET

Compound 3825 is an 80 cream colored Buna N elastomer, it is formulated with FDA sanctioned materials.

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

- ASTM D2000 2 BF 815 EO14 EO34
- 6 BG 815 A14 EO14 EO34
- 7 BG 815 EA14 EF11 EF21
- 4 BK 815 A24 EF11 EO14

This Compound is RoHS Compliant



Original Properties

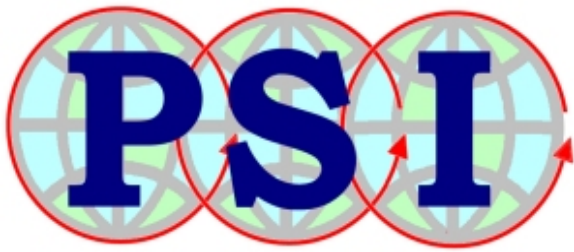
Modulus @ 100% Elongation	807 psi	5.6 MPa
Tensile Strength	1862 psi	12.8 MPa
Ultimate Elongation	822 %	
Hardness, Shore A	80 Durometer	
Specific Gravity	1.52 grams/cc	
Brittleness Temperature	12 °F	-11 °C
Tear Resistance, Die B	306 ppi	53.6 kN/m
Tear Resistance, Die C	234 ppi	41.0 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	48.0 %
Solid: 70 hrs @ 212°F (100°C)	60.9 %
Plied: 22 hrs @ 212°F (100°C)	51.0 %
Plied: 70 hrs @ 212°F (100°C)	64.3 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 1.0 %
Change - Elongation	- 12.6 %
Change - Hardness, Shore A	+ 4



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HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 5.2 %
Change - Elongation	- 42.7 %
Change - Hardness, Shore A	+ 7

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

Change - Hardness, Shore A	- 3
Change - Volume	+ 7.3 %

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

Change - Tensile Strength	- 4.8 %
Change - Elongation	+ 1.5 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 2.3 %

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

Change - Tensile Strength	- 37.4 %
Change - Elongation	- 3.8 %
Change - Hardness, Shore A	- 21
Change - Volume	+ 28.1 %

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

Change - Tensile Strength	- 0.2 %
Change - Elongation	- 11.7 %
Change - Hardness, Shore A	- 4
Change - Volume	- 3.5 %

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

Change - Tensile Strength	+ 8.6 %
Change - Elongation	- 2.5 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 7.1 %