



Compound

**3525**NITRILE - BUTADIENE  
50 DUROMETER  
WHITE COLOR**PRODUCT DATA SHEET**

Compound 3525 is a 50 durometer white colored Buna N elastomer. It exhibits good resistance to heat and compression set.

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

ASTM D2000 2 BG 504 B14 B34 EO14 EA14  
5 BG 504 A14 B14 B34 EO14

CFR21 177.2600

**Original Properties**

Modulus @ 100% Elongation	165 psi	1.1 MPa
Tensile Strength	762 psi	5.3 MPa
Ultimate Elongation	592 %	
Hardness, Shore A	53 Durometer	
Specific Gravity	1.21 grams/cc	
Brittleness Temperature	-32 °F	-36 °C
Tear Resistance, Die B	68 ppi	11.9 kN/m

**Compression Set**

Solid: 22 hrs @ 212°F (100°C)	19.2 %
Plied: 22 hrs @ 212°F (100°C)	24.9 %

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	- 6.7 %
Change - Elongation	- 12.7 %
Change - Hardness, Shore A	- 2
Change - Weight	- 2.0 %

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

Change - Tensile Strength	- 49.6 %
Change - Elongation	- 51.4 %
Change - Hardness, Shore A	- 14
Change - Volume	+ 11.5 %

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

Change - Tensile Strength	- 26.5 %
Change - Elongation	- 13.3 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 3.4 %



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

Change - Tensile Strength	- 64.7 %
Change - Elongation	- 51.4 %
Change - Hardness, Shore A	- 14
Change - Volume	+ 40.2 %

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

Change - Tensile Strength	- 6.7 %
Change - Elongation	- 10.6 %
Change - Hardness, Shore A	- 2
Change - Volume	- 3.4 %

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

Change - Tensile Strength	- 49.6 %
Change - Elongation	- 35.5 %
Change - Hardness, Shore A	- 13
Change - Volume	+ 13.3 %

**Tear Resistance, Method D 624, Die B**

Tear Resistance	68.0 ppi
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