



Compound

3425NITRILE - BUTADIENE
40 DUROMETER - WHITE
FDA SANCTIONED MAT'L**PRODUCT DATA SHEET**

Compound 3425 is a 40 durometer white colored Buna N elastomer, it is formulated with FDA sanctioned materials. It 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 EF21 EO34 F17
5 BG 410 A14 B14 B34

Original Properties

Modulus @ 100% Elongation	180 psi	1.2 MPa
Tensile Strength	1275 psi	8.8 MPa
Ultimate Elongation	641 %	
Hardness, Shore A	45 Durometer	
Specific Gravity	1.28 grams/cc	
Brittleness Temperature	-43 °F	-42 °C
Tear Resistance, Die B	112 ppi	19.6 kN/m
Tear Resistance, Die C	130 ppi	22.8 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	12.6 %
Solid: 22 hrs @ 257°F (125°C)	18.2 %
Solid: 70 hrs @ 212°F (100°C)	17.9 %
Plied: 22 hrs @ 212°F (100°C)	21.3 %
Plied: 22 hrs @ 257°F (125°C)	31.3 %
Plied: 70 hrs @ 212°F (100°C)	28.0 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 15.2 %
Change - Elongation	- 9.7 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 48.0 %
Change - Elongation	- 74.8 %
Change - Hardness, Shore A	+ 11

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

Change - Tensile Strength	- 48.0 %
Change - Elongation	- 74.8 %
Change - Hardness, Shore A	+ 11



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

Change - Hardness, Shore A - 1
Change - Volume + 6.4 %

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

Change - Tensile Strength + 12.5 %
Change - Elongation + 2.0 %
Change - Hardness, Shore A 0
Change - Volume + 0.7 %

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

Change - Tensile Strength - 69.2 %
Change - Elongation - 41.8 %
Change - Hardness, Shore A - 5
Change - Volume + 27.7 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength + 70.7 %
Change - Elongation + 6.6 %
Change - Hardness, Shore A 0
Change - Volume - 9.0 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength - 5.9 %
Change - Elongation - 6.2 %
Change - Hardness, Shore A - 5
Change - Volume + 6.6 %