

Compound  
**5606**  
NITRILE-BUTADIENE  
60 DUROMETER  
BLACK COLOR

**PRODUCT DATA SHEET**

Compound 5606 is a 60 durometer medium high nitrile Buna N elastomer. It has good physical properties with good oil and grease resistance.

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

- ASTM D2000 2 BF 620 B14 B34 EO14 EO34
- 2 BG 620 B14 B34 EA14 EF11 EF21 EO14 EO34 F17
- 3 BG 620 B14
- 4 BG 620 A14 B14 EO34
- 5 BG 620 A14 B14 B34 EO14 EO34
  
- 4 BK 620 A24 B14 B34 EF11 EO14
  
- 2 CH 620 A25 B14 B34 EO15 EO35 F17
- 3 CH 620 A25 B14 B34 EO16 EO36
- 5 CH 615 A25 B14 B34 EO36 F14
- 6 CH 615 A25 B14 B34 EO36 F17

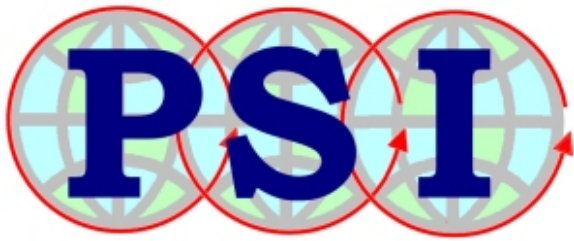
- AMS 3200
- MIL-R-6855 Class 1 Grade 60
- MIL-PRF-1149 Type II Class 5

**This Compound is RoHS Compliant**



**Original Properties**

|                           |               |           |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 262 psi       | 1.8 MPa   |
| Tensile Strength          | 2,380 psi     | 16.4 MPa  |
| Ultimate Elongation       | 554 %         |           |
| Hardness, Shore A         | 64 Durometer  |           |
| Specific Gravity          | 1.17 grams/cc |           |
| Brittleness Temperature   | -45 °F        | -43 °C    |
| TR-10 Temperature         | -23 °F        | -30 °C    |
| Tear Resistance, Die B    | 204 ppi       | 35.7 kN/m |
| Tear Resistance, Die C    | 221 ppi       | 38.7 kN/m |



Compound

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|                               |        |
|-------------------------------|--------|
| Solid: 22 hrs @ 212°F (100°C) | 9.0 %  |
| Solid: 22 hrs @ 257°F (125°C) | 11.6 % |
| Solid: 22 hrs @ 302°F (150°C) | 20.3 % |
| Solid: 70 hrs @ 212°F (100°C) | 13.4 % |
| Plied: 22 hrs @ 212°F (100°C) | 19.9 % |
| Plied: 22 hrs @ 257°F (125°C) | 22.4 % |
| Plied: 22 hrs @ 302°F (150°C) | 29.2 % |

**HEAT AGED: 70 hrs @ 212°F (100°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 4.3 %  |
| Change - Elongation        | - 14.0 % |
| Change - Hardness, Shore A | 0        |

**HEAT AGED: 70 hrs @ 257°F (125°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 17.0 % |
| Change - Elongation        | - 18.8 % |
| Change - Hardness, Shore A | + 3      |

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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 17.0 % |
| Change - Elongation        | - 18.8 % |
| Change - Hardness, Shore A | + 3      |

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

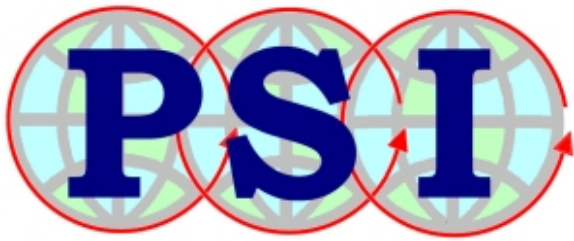
|                            |         |
|----------------------------|---------|
| Change - Hardness, Shore A | 0       |
| Change - Volume            | + 4.2 % |

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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 13.3 % |
| Change - Elongation        | - 7.0 %  |
| Change - Hardness, Shore A | 0        |
| Change - Volume            | + 0.8 %  |

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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 53.2 % |
| Change - Elongation        | - 45.5 % |
| Change - Hardness, Shore A | - 11     |
| Change - Volume            | + 27.7 % |



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|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 67.6 % |
| Change - Elongation        | - 63.5 % |
| Change - Hardness, Shore A | - 13     |
| Change - Volume            | + 50.3 % |

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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 12.4 % |
| Change - Elongation        | - 9.0 %  |
| Change - Hardness, Shore A | 0        |
| Change - Volume            | - 5.7 %  |

**ASTM OIL #1 (IRM 901): 70 hrs @ 257°F (125°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 9.5 %  |
| Change - Elongation        | - 20.0 % |
| Change - Hardness, Shore A | 0        |
| Change - Volume            | - 5.5 %  |

**ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 8.7 %  |
| Change - Elongation        | - 27.8 % |
| Change - Hardness, Shore A | 0        |
| Change - Volume            | - 5.5 %  |

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

|                            |         |
|----------------------------|---------|
| Change - Tensile Strength  | + 1.5 % |
| Change - Elongation        | - 7.0 % |
| Change - Hardness, Shore A | - 3     |
| Change - Volume            | + 5.5 % |

**ASTM OIL #3 (IRM 903): 70 hrs @ 257°F (125°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 3.5 %  |
| Change - Elongation        | - 12.1 % |
| Change - Hardness, Shore A | - 4      |
| Change - Volume            | + 7.6 %  |

**ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 1.7 %  |
| Change - Elongation        | - 21.5 % |
| Change - Hardness, Shore A | - 5      |
| Change - Volume            | + 8.5 %  |