



Compound

3616**NITRILE - BUTADIENE
60 DUROMETER
BLACK- ELECT. CONDUCT.****PRODUCT DATA SHEET**

Compound 3616 is a 60 durometer black colored Buna N elastomer, it is specifically formulated to be electrically conductive.

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

ASTM D2000 2 BF 614 B14 EO34 Z1 (65 +/- 5 Type A Duro)
2 BG 614 B14 EA14 EF11 EF21 F17 Z1 (65 +/- 5 Type A Dur5 BG 614
A14 B14 Z1 (65 +/- 5 Type A Duro)

Original Properties

| | | |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 380 psi | 2.6 MPa |
| Tensile Strength | 1949 psi | 13.4 MPa |
| Ultimate Elongation | 450 % | |
| Hardness, Shore A | 65 Durometer | |
| Specific Gravity | 1.22 grams/cc | |
| Brittleness Temperature | -49 °F | -45 °C |
| Tear Resistance, Die B | 220 ppi | 38.5 kN/m |

Compression Set

| | |
|-------------------------------|--------|
| Solid: 22 hrs @ 212°F (100°C) | 18.6 % |
| Solid: 70 hrs @ 212°F (100°C) | 23.9 % |
| Plied: 22 hrs @ 212°F (100°C) | 38.7 % |
| Plied: 70 hrs @ 212°F (100°C) | 55.0 % |

HEAT AGED: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 2.6 % |
| Change - Elongation | - 11.1 % |
| Change - Hardness, Shore A | + 10 |

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

| | |
|----------------------------|---------|
| Change - Hardness, Shore A | + 2 |
| Change - Volume | + 7.2 % |

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

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 12.4 % |
| Change - Elongation | - 4.4 % |
| Change - Hardness, Shore A | + 4 |
| Change - Volume | - 0.7 % |

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

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 32.0 % |
| Change - Elongation | - 20.0 % |
| Change - Hardness, Shore A | - 5 |
| Change - Volume | + 7.9 % |



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ASTM OIL #1: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | + 1.4 % |
| Change - Elongation | - 15.6 % |
| Change - Hardness, Shore A | + 15 |
| Change - Volume | - 20.7 % |

ASTM OIL #3: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 1.1 % |
| Change - Elongation | - 15.6 % |
| Change - Hardness, Shore A | + 12 |
| Change - Volume | - 7.2 % |

Tear Resistance, Method D 624, Die B

| | |
|-----------------|-----------|
| Tear Resistance | 220.0 ppi |
|-----------------|-----------|