



Compound

**4768****CHLOROPRENE  
70 DUROMETER  
BLACK-ELECT.CONDUCT.****PRODUCT DATA SHEET**

Compound 4768 is a 70 durometer black colored Neoprene elastomer, it is specifically formulated to be electrically conductive. 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 3 BC 720 A14 B14 EO14 EO34 G21  
5 BC 720 A14 B14 EO14 EO34 G21  
6 BC 720 A14 B14 EO14 EO34 G21  
  
2 BE 720 A14 B14 EO14  
3 BE 715 A14 B14 EO14 G21

**Original Properties**

|                           |               |           |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 392 psi       | 2.7 MPa   |
| Tensile Strength          | 2262 psi      | 15.6 MPa  |
| Ultimate Elongation       | 410 %         |           |
| Hardness, Shore A         | 67 Durometer  |           |
| Specific Gravity          | 1.32 grams/cc |           |
| Brittleness Temperature   | -36 °F        | -38 °C    |
| Tear Resistance, Die B    | 195 ppi       | 34.2 kN/m |
| Tear Resistance, Die C    | 232 ppi       | 40.6 kN/m |

**Compression Set**

|                               |        |
|-------------------------------|--------|
| Solid: 22 hrs @ 212°F (100°C) | 14.2 % |
| Solid: 70 hrs @ 212°F (100°C) | 17.5 % |
| Plied: 22 hrs @ 212°F (100°C) | 24.6 % |
| Plied: 70 hrs @ 212°F (100°C) | 31.4 % |

**HEAT AGED: 70 hrs @ 212°F (100°C)**

|                            |         |
|----------------------------|---------|
| Change - Tensile Strength  | + 9.5 % |
| Change - Elongation        | + 2.4 % |
| Change - Hardness, Shore A | + 2     |

**HEAT AGED: 70 hrs @ 257°F (125°C)**

|                            |         |
|----------------------------|---------|
| Change - Tensile Strength  | + 2.1 % |
| Change - Elongation        | - 2.0 % |
| Change - Hardness, Shore A | + 7     |

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

|                            |         |
|----------------------------|---------|
| Change - Hardness, Shore A | - 3     |
| Change - Volume            | + 8.5 % |



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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 6.5 %  |
| Change - Elongation        | - 13.7 % |
| Change - Hardness, Shore A | - 7      |
| Change - Volume            | + 15.4 % |

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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 46.9 % |
| Change - Elongation        | - 46.6 % |
| Change - Hardness, Shore A | - 10     |
| Change - Volume            | + 55.9 % |

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

|                            |         |
|----------------------------|---------|
| Change - Tensile Strength  | + 5.4 % |
| Change - Elongation        | - 3.9 % |
| Change - Hardness, Shore A | - 2     |
| Change - Volume            | - 2.7 % |

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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 38.8 % |
| Change - Elongation        | - 3.9 %  |
| Change - Hardness, Shore A | - 13     |
| Change - Volume            | + 61.6 % |

**Conductivity, Method ASTM D257**

|            |              |
|------------|--------------|
| Resitivity | 2,000.0 O/cm |
|------------|--------------|