

Compound

**23411**ETHYLENE PROPYLENE  
40 DUROMETER  
BLACK COLOR**PRODUCT DATA SHEET**

Compound 23411 is a 40 durometer black colored general purpose EPDM elastomer. It exhibits excellent resistance to heat, compression set and boiling water. It exhibits excellent low temperature flexibility.

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

ASTM D2000    2 AA 410 A13 F17 EA14  
                  4 AA 410 B13 B33 F17 EA14

                  2 BA 410 F17  
                  8 BA B13

                  2 CA 410 A25 B44 B35 F17 F18 EA14

**Original Properties**

|                           |               |           |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 101 psi       | 0.7 MPa   |
| Tensile Strength          | 1577 psi      | 10.9 MPa  |
| Ultimate Elongation       | 620 %         |           |
| Hardness, Shore A         | 42 Durometer  |           |
| Specific Gravity          | 1.00 grams/cc |           |
| Brittleness Temperature   | -94 °F        | -70 °C    |
| Tear Resistance, Die B    | 81 ppi        | 14.2 kN/m |

**Compression Set**

|                               |        |
|-------------------------------|--------|
| Solid: 22 hrs @ 158°F (70°C)  | 20.9 % |
| Solid: 22 hrs @ 212°F (100°C) | 15.9 % |
| Plied: 22 hrs @ 158°F (70°C)  | 18.5 % |
| Plied: 22 hrs @ 212°F (100°C) | 16.7 % |
| Plied: 22 hrs @ 257°F (125°C) | 18.5 % |
| Plied: 70 hrs @ 212°F (100°C) | 20.1 % |

**HEAT AGED: 70 hrs @ 158°F (70°C)**

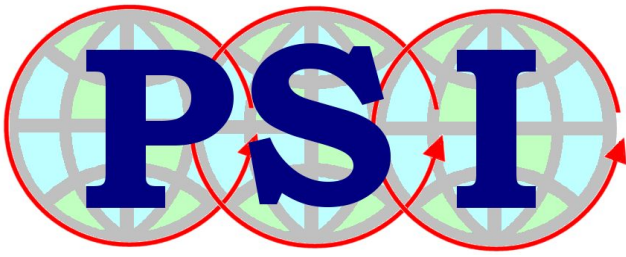
|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 10.0 % |
| Change - Elongation        | + 6.5 %  |
| Change - Hardness, Shore A | 0        |

**HEAT AGED: 70 hrs @ 212°F (100°C)**

|                            |       |
|----------------------------|-------|
| Change - Tensile Strength  | 0.0 % |
| Change - Elongation        | 0.0 % |
| Change - Hardness, Shore A | + 4   |

**HEAT AGED: 70 hrs @ 257°F (125°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 26.8 % |
| Change - Elongation        | + 11.3 % |
| Change - Hardness, Shore A | + 5      |



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**HEAT AGED: 70 hrs @ 302°F (150°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 16.4 % |
| Change - Elongation        | + 19.4 % |
| Change - Hardness, Shore A | + 7      |

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

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 26.8 % |
| Change - Elongation        | + 11.3 % |
| Change - Hardness, Shore A | + 5      |

**HEAT AGED: 70 hrs @ 302°F (150°C) Test Tube Method**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | + 16.4 % |
| Change - Elongation        | + 19.4 % |
| Change - Hardness, Shore A | + 7      |

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

|                            |         |
|----------------------------|---------|
| Change - Hardness, Shore A | - 2     |
| Change - Volume            | + 1.1 % |