

Compound

23611

**ETHYLENE PROPYLENE
60 DUROMETER
BLACK COLOR**

PRODUCT DATA SHEET

Compound 23611 is a 60 durometer black colored general purpose EPDM elastomer. It exhibits excellent resistance to heat, compression set and boiling water, it has very good low temperature flexibility.

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

- ASTM D2000
- 2 AA 620 A13 C12 EA14 F17
 - 3 AA 620 B13 B33 EA14 F17 G21
 - 4 AA 620 A13 B13 B33 C12 EA14 F17 G21
 - 5 AA 620 A13 B13 B33 EA14 F17 G21

 - 2 BA 620 C12 F17
 - 3 BA 620 A14 B13 C12 F17 F19
 - 4 BA 620 A14 C12 F17
 - 5 BA 620 C12 F17 F19
 - 8 BA 620 B13

 - 4 CA 620 A25 B35 C32 EA14 F17 F18 F19 G21
 - 5 CA 620 A25 B35 C32 EA14 F17 F18 G21
 - 3 CA 610 A25 B35 C32 EA14 F17 G21

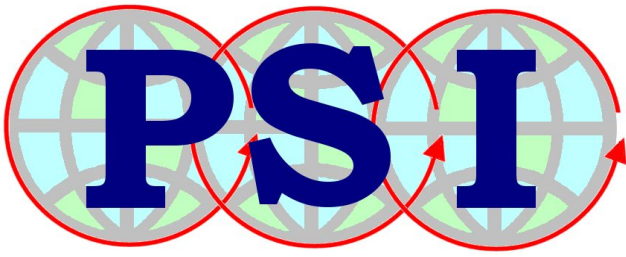
 - 2 DA 620 A26 B36 C32 EA14 F19 G11 G21
 - 3 DA 620 A26 B36 C32 EA14 F19 G11 G21

Original Properties

| | | |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 216 psi | 1.5 MPa |
| Tensile Strength | 2257 psi | 15.6 MPa |
| Ultimate Elongation | 430 % | |
| Hardness, Shore A | 63 Durometer | |
| Specific Gravity | 1.07 grams/cc | |
| Brittleness Temperature | < -70 °F | < -57 °C |
| Tear Resistance, Die B | 113 ppi | 19.8 kN/m |
| Tear Resistance, Die C | 180 ppi | 31.5 kN/m |

Compression Set

| | |
|-------------------------------|--------|
| Solid: 22 hrs @ 158°F (70°C) | 13.6 % |
| Solid: 22 hrs @ 212°F (100°C) | 11.6 % |
| Solid: 22 hrs @ 257°F (125°C) | 12.6 % |
| Solid: 22 hrs @ 302°F (150°C) | 15.3 % |
| Solid: 70 hrs @ 212°F (100°C) | 10.9 % |
| Plied: 22 hrs @ 158°F (70°C) | 14.8 % |
| Plied: 22 hrs @ 212°F (100°C) | 11.8 % |
| Plied: 22 hrs @ 257°F (125°C) | 15.2 % |
| Plied: 22 hrs @ 302°F (150°C) | 15.3 % |
| Plied: 70 hrs @ 212°F (100°C) | 12.1 % |



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60 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET****HEAT AGED: 70 hrs @ 158°F (70°C)**

| | |
|----------------------------|---------|
| Change - Tensile Strength | + 3.3 % |
| Change - Elongation | + 0.2 % |
| Change - Hardness, Shore A | 0 |

HEAT AGED: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|---------|
| Change - Tensile Strength | + 6.8 % |
| Change - Elongation | + 0.9 % |
| Change - Hardness, Shore A | + 2 |

HEAT AGED: 70 hrs @ 257°F (125°C)

| | |
|----------------------------|---------|
| Change - Tensile Strength | + 0.8 % |
| Change - Elongation | + 4.0 % |
| Change - Hardness, Shore A | + 3 |

HEAT AGED: 70 hrs @ 302°F (150°C)

| | |
|----------------------------|---------|
| Change - Tensile Strength | - 0.6 % |
| Change - Elongation | + 3.5 % |
| Change - Hardness, Shore A | + 3 |

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

| | |
|----------------------------|---------|
| Change - Tensile Strength | + 0.8 % |
| Change - Elongation | + 4.0 % |
| Change - Hardness, Shore A | + 3 |

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

| | |
|----------------------------|---------|
| Change - Tensile Strength | - 0.6 % |
| Change - Elongation | + 3.5 % |
| Change - Hardness, Shore A | + 3 |

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

| | |
|----------------------------|---------|
| Change - Hardness, Shore A | - 1 |
| Change - Volume | - 0.6 % |