



Compound

35615**POLYURETHANE
60 DUROMETER
BLACK COLOR****PRODUCT DATA SHEET**

Compound 35615 is a 60 durometer black colored general purpose polyUrethane elastomer. It has good physicals. It exhibits good resistance to petroleum based oils, aliphatic and aromatic fuels.

This compound has the following physical properties:

Original Properties

| | | |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 282 psi | 1.9 MPa |
| Tensile Strength | 5352 psi | 36.9 MPa |
| Ultimate Elongation | 580 % | |
| Hardness, Shore A | 61 Durometer | |
| Specific Gravity | 1.30 grams/cc | |
| Brittleness Temperature | -31 °F | -35 °C |
| Tear Resistance, Die B | 104 ppi | 18.2 kN/m |
| Tear Resistance, Die C | 250 ppi | 43.8 kN/m |

Compression Set

| | |
|-------------------------------|--------|
| Solid: 22 hrs @ 212°F (100°C) | 80.3 % |
| Plied: 22 hrs @ 212°F (100°C) | 77.3 % |

HEAT AGED: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 22.1 % |
| Change - Elongation | - 32.8 % |
| Change - Hardness, Shore A | + 5 |

HEAT AGED: 70 hrs @ 257°F (125°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 24.2 % |
| Change - Elongation | - 25.9 % |
| Change - Hardness, Shore A | + 5 |

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

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 24.2 % |
| Change - Elongation | - 25.9 % |
| Change - Hardness, Shore A | + 5 |

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

| | |
|----------------------------|---------|
| Change - Hardness, Shore A | - 9 |
| Change - Volume | + 9.0 % |

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

| | |
|----------------------------|---------|
| Change - Tensile Strength | - 6.3 % |
| Change - Elongation | - 7.2 % |
| Change - Hardness, Shore A | + 3 |
| Change - Volume | + 1.0 % |



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

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 20.1 % |
| Change - Elongation | - 10.3 % |
| Change - Hardness, Shore A | - 1 |
| Change - Volume | + 9.1 % |

ASTM OIL #1: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 12.8 % |
| Change - Elongation | - 19.0 % |
| Change - Hardness, Shore A | + 4 |
| Change - Volume | - 1.8 % |

ASTM OIL #3: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|---------|
| Change - Tensile Strength | - 5.3 % |
| Change - Elongation | - 7.2 % |
| Change - Hardness, Shore A | + 3 |
| Change - Volume | + 1.0 % |