

Compound

35915POLYURETHANE
90 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET**

Compound 35915 is a 90 durometer black colored polyUrethane elastomer. It exhibits good physicals.

This compound has the following physical properties:

Original Properties

| | | |
|---------------------------|---------------|------------|
| Modulus @ 100% Elongation | 1418 psi | 9.8 MPa |
| Tensile Strength | 3697 psi | 25.5 MPa |
| Ultimate Elongation | 382 % | |
| Hardness, Shore A | 92 Durometer | |
| Specific Gravity | 1.37 grams/cc | |
| Brittleness Temperature | 3 °F | -16 °C |
| Tear Resistance, Die B | 919 ppi | 160.9 kN/m |
| Tear Resistance, Die C | 434 ppi | 76.0 kN/m |

Compression Set

| | |
|-------------------------------|--------|
| Solid: 22 hrs @ 212°F (100°C) | 74.0 % |
| Solid: 70 hrs @ 212°F (100°C) | 90.1 % |
| Plied: 22 hrs @ 212°F (100°C) | 80.4 % |
| Plied: 70 hrs @ 212°F (100°C) | 94.6 % |

HEAT AGED: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | + 3.2 % |
| Change - Elongation | + 54.7 % |
| Change - Hardness, Shore A | + 2 |

HEAT AGED: 70 hrs @ 257°F (125°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | + 2.0 % |
| Change - Elongation | - 51.0 % |
| Change - Hardness, Shore A | + 2 |

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

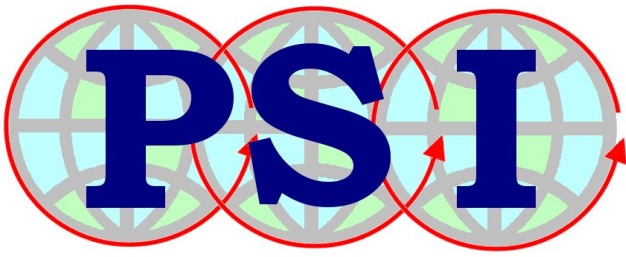
| | |
|----------------------------|----------|
| Change - Tensile Strength | + 2.0 % |
| Change - Elongation | - 51.0 % |
| Change - Hardness, Shore A | + 2 |

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

| | |
|----------------------------|----------|
| Change - Hardness, Shore A | - 18 |
| Change - Volume | + 13.9 % |

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

| | |
|----------------------------|----------|
| Change - Tensile Strength | + 1.6 % |
| Change - Elongation | - 11.8 % |
| Change - Hardness, Shore A | - 2 |
| Change - Volume | 0.0 % |



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

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 4.6 % |
| Change - Elongation | - 11.3 % |
| Change - Hardness, Shore A | - 8 |
| Change - Volume | + 7.6 % |

ASTM OIL #1: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | + 1.6 % |
| Change - Elongation | - 33.8 % |
| Change - Hardness, Shore A | 0 |
| Change - Volume | - 1.7 % |

ASTM OIL #3: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | + 2.5 % |
| Change - Elongation | - 26.2 % |
| Change - Hardness, Shore A | - 2 |
| Change - Volume | + 1.2 % |