

Compound

25715**TETRAFLUOROETHYLENE -
PROPYLENE - 75 DURO
BLACK COLOR****PRODUCT DATA SHEET**

Compound 25715 is a 75 durometer black colored TFEP copolymer elastomer, it is specifically formulated to have improved resistance in basic environments. It is also recommended for use in a variety of other chemicals, such as steam, water, alcohols and petroleum based oils

This compound has the following physical properties:

Original Properties

| | | |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 579 psi | 4.0 MPa |
| Tensile Strength | 1452 psi | 10.0 MPa |
| Ultimate Elongation | 238 % | |
| Hardness, Shore A | 77 Durometer | |
| Specific Gravity | 1.72 grams/cc | |
| Brittleness Temperature | -3 °F | -19 °C |
| Tear Resistance, Die B | 178 ppi | 31.2 kN/m |
| Tear Resistance, Die C | 137 ppi | 24.0 kN/m |

Compression Set

Plied: 22 hrs @ 347°F (175°C) 24.8 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength - 1.5 %
Change - Elongation - 0.8 %
Change - Hardness, Shore A + 3

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

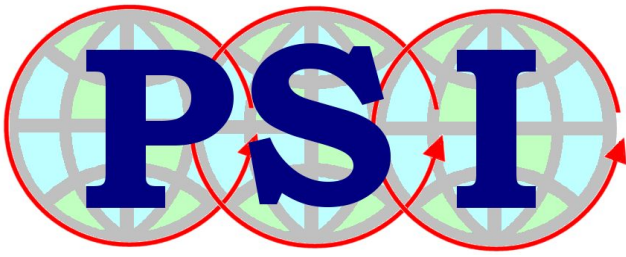
Change - Tensile Strength + 0.9 %
Change - Elongation + 15.1 %
Change - Hardness, Shore A - 4
Change - Volume + 5.7 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength - 0.8 %
Change - Elongation + 2.5 %
Change - Hardness, Shore A - 1
Change - Volume + 0.6 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength - 3.2 %
Change - Elongation + 1.3 %
Change - Hardness, Shore A - 4
Change - Volume + 5.7 %



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PROPYLENE - 75 DURO
BLACK COLOR**

PRODUCT DATA SHEET

AMSOIL 2000: 3500 hrs @ 302°F (150°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 16.1 % |
| Change - Elongation | + 2.1 % |
| Change - Hardness, Shore A | - 1 |
| Change - Volume | + 3.8 % |

ATF: 70 hrs @ 302°F (150°C)

| | |
|----------------------------|---------|
| Change - Tensile Strength | - 8.3 % |
| Change - Elongation | + 4.2 % |
| Change - Hardness, Shore A | - 3 |
| Change - Volume | + 3.3 % |

SODIUM HYDROXIDE: Aged 70 hrs @ 212°F (100°C)

| | |
|----------------------------|---------|
| Change - Tensile Strength | + 1.6 % |
| Change - Elongation | + 2.1 % |
| Change - Hardness, Shore A | 0 |
| Change - Volume | - 0.3 % |

SHELL HELIX ULTRA: 3500 hrs @ 302°F (150°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 22.0 % |
| Change - Elongation | + 11.8 % |
| Change - Hardness, Shore A | - 2 |
| Change - Volume | + 3.6 % |