



Compound

23858ETHYLENE PROPYLENE
BLACK COLOR - 80 DURO
TEFLON FILLED**PRODUCT DATA SHEET**

Compound 23858 is an 80 durometer black colored EPDM elastomer, it is formulated with Teflon to provide internal lubrication. It exhibits good resistance to heat, compression set and water. It will remain nonbrittle at low temperatures.

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

ASTM D2000 2 AA 815 A13 F17 EA14
2 BA 815 F17
4 BA 815 A14 F17
7 CA 815 A25 B35 F17 F18 G11 G21 EA14
8 CA 815 A25 B35 F17 G11 G21 EA14
2 DA 815 B36 F19 G11 G21 EA14
3 DA 815 F19 G11 G21 EA14

Original Properties

| | | |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 828 psi | 5.7 MPa |
| Tensile Strength | 1911 psi | 13.2 MPa |
| Ultimate Elongation | 213 % | |
| Hardness, Shore A | 83 Durometer | |
| Specific Gravity | 1.20 grams/cc | |
| Brittleness Temperature | -90 °F | -68 °C |
| Tear Resistance, Die B | 181 ppi | 31.7 kN/m |

Compression Set

| | |
|-------------------------------|--------|
| Solid: 22 hrs @ 158°F (70°C) | 14.8 % |
| Plied: 22 hrs @ 158°F (70°C) | 23.5 % |
| Plied: 22 hrs @ 212°F (100°C) | 18.0 % |
| Plied: 22 hrs @ 257°F (125°C) | 26.6 % |
| Plied: 22 hrs @ 302°F (150°C) | 35.3 % |
| Plied: 70 hrs @ 212°F (100°C) | 28.1 % |

HEAT AGED: 70 hrs @ 158°F (70°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | + 13.1 % |
| Change - Elongation | 0.0 % |
| Change - Hardness, Shore A | + 4 |

HEAT AGED: 70 hrs @ 212°F (100°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 1.6 % |
| Change - Elongation | - 11.7 % |
| Change - Hardness, Shore A | + 5 |



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HEAT AGED: 70 hrs @ 257°F (125°C)

| | |
|----------------------------|---------|
| Change - Tensile Strength | + 0.2 % |
| Change - Elongation | 0.0 % |
| Change - Hardness, Shore A | + 6 |

HEAT AGED: 70 hrs @ 302°F (150°C)

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 12.4 % |
| Change - Elongation | - 23.5 % |
| Change - Hardness, Shore A | + 8 |

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

| | |
|----------------------------|---------|
| Change - Tensile Strength | + 0.2 % |
| Change - Elongation | 0.0 % |
| Change - Hardness, Shore A | + 6 |

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

| | |
|----------------------------|----------|
| Change - Tensile Strength | - 12.4 % |
| Change - Elongation | - 23.5 % |
| Change - Hardness, Shore A | + 8 |

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

| | |
|----------------------------|---------|
| Change - Hardness, Shore A | + 2 |
| Change - Volume | - 0.7 % |