



Compound

**23511**ETHYLENE PROPYLENE  
50 DUROMETER  
BLACK COLOR**PRODUCT DATA SHEET**

Compound 23511 is a 50 durometer black colored general purpose EPDM elastomer. It exhibits good resistance to heat, compression set and water. It will remain non brittle at low temperatures.

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

ASTM D2000    2 AA 512 A13 F17 C12 EA14  
                  3 AA 512 B13 B33 EA14 F17 G21

                  2 BA 510 C12 F17  
                  8 BA 510 B13 C12

                  3 CA 510 A25 B44 B35 C32 EA14 F17 F18 G21

                  2 DA 510 A26 B36 C32 EA14 F19 G21

**Original Properties**

Modulus @ 100% Elongation	175 psi	1.2 MPa
Tensile Strength	1507 psi	10.4 MPa
Ultimate Elongation	474 %	
Hardness, Shore A	54 Durometer	
Specific Gravity	1.04 grams/cc	
Brittleness Temperature	< -105 °F	< -76 °C
Tear Resistance, Die B	96 ppi	16.8 kN/m
Tear Resistance, Die C	150 ppi	26.3 kN/m

**Compression Set**

Solid: 22 hrs @ 212°F (100°C)	13.5 %
Solid: 70 hrs @ 212°F (100°C)	15.2 %
Plied: 22 hrs @ 212°F (100°C)	12.5 %
Plied: 22 hrs @ 257°F (125°C)	14.6 %
Plied: 22 hrs @ 302°F (150°C)	17.6 %
Plied: 70 hrs @ 212°F (100°C)	17.3 %

**HEAT AGED: 70 hrs @ 158°F (70°C)**

Change - Tensile Strength	+ 4.0 %
Change - Elongation	+ 12.9 %
Change - Hardness, Shore A	0

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	- 1.7 %
Change - Elongation	+ 6.3 %
Change - Hardness, Shore A	+ 2



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**HEAT AGED: 70 hrs @ 257°F (125°C)**

Change - Tensile Strength	+ 5.4 %
Change - Elongation	+ 1.1 %
Change - Hardness, Shore A	+ 3

**HEAT AGED: 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	+ 19.0 %
Change - Elongation	+ 12.7 %
Change - Hardness, Shore A	+ 4

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

Change - Tensile Strength	+ 5.4 %
Change - Elongation	+ 1.1 %
Change - Hardness, Shore A	+ 3

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

Change - Tensile Strength	+ 19.0 %
Change - Elongation	+ 12.7 %
Change - Hardness, Shore A	+ 4

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

Change - Hardness, Shore A	0
Change - Volume	+ 1.5 %