

Compound
23911
ETHYLENE PROPYLENE
90 DUROMETER
BLACK COLOR

PRODUCT DATA SHEET

Compound 23911 is a 90 durometer black colored general purpose EPDM elastomer. It exhibits good resistance to automotive brake fluid, water, compression set and heat at elevated temperatures. It will remain non brittle at low temperatures. This compound is peroxide cured.

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

- ASTM D2000 2 AA 915 A13 F17 EA14
- 2 BA 915 F17
- 4 BA 915 A14 F17
- 7 CA 915 A25 B35 F17 F18 G11 G21 EA14
- 8 CA 915 A25 B35 F17 G11 G21 EA14
- 6 CA 915 A25 B35 A14 F17 G11 G21

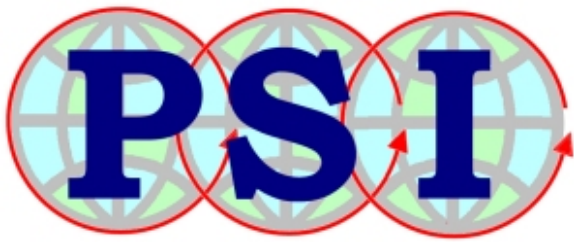


Original Properties

Modulus @ 100% Elongation	1428 psi	9.8 MPa
Tensile Strength	1,920 psi	13.2 MPa
Ultimate Elongation	135 %	
Hardness, Shore A	91 Durometer	
Specific Gravity	1.16 grams/cc	
Brittleness Temperature	< -75 °F	< -59 °C
TR-10 Temperature	-51 °F	-46 °C
Tear Resistance, Die B	191.0 ppi	33.5 kN/m
Tear Resistance, Die C	184.0 ppi	32.2 kN/m

Compression Set

Solid: 22 hrs @ 158°F (70°C)	8.8 %
Solid: 22 hrs @ 212°F (100°C)	6.9 %
Solid: 22 hrs @ 257°F (125°C)	6.9 %
Solid: 70 hrs @ 212°F (100°C)	8.5 %
Plied: 22 hrs @ 158°F (70°C)	14.5 %
Plied: 22 hrs @ 212°F (100°C)	14.7 %
Plied: 22 hrs @ 257°F (125°C)	15.6 %
Plied: 70 hrs @ 212°F (100°C)	18.3 %



Compound

23911ETHYLENE PROPYLENE
90 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET****HEAT AGED: 70 hrs @ 158°F (70°C)**

Change - Tensile Strength	- 5.2 %
Change - Elongation	- 1.5 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 3.3 %
Change - Elongation	- 5.2 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 2.8 %
Change - Elongation	- 2.2 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 4.9 %
Change - Elongation	- 5.2 %
Change - Hardness, Shore A	+ 1

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

Change - Tensile Strength	- 2.8 %
Change - Elongation	- 2.2 %
Change - Hardness, Shore A	+ 1

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

Change - Tensile Strength	- 4.9 %
Change - Elongation	- 5.2 %
Change - Hardness, Shore A	+ 1

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

Change - Hardness, Shore A	- 1
Change - Volume	+ 0.3 %