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	%

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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 %

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