Compound

35915

POLYURETHANE
90 DUROMETER
BLACK COLOR

PRODUCT DATA SHEET

Compound 35915 is a 90 durometer black colored polyUrethane elastomer.It exhibits good physicals.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	1418	psi	9.8	MPa
Tensile Strength	3697	psi	25.5	MPa
Ultimate Elongation	382	%		
Hardness, Shore A	92	Durometer		
Specific Gravity	1.37	grams/cc		
Brittleness Temperature	3	°F	-16	°C
Tear Resistance, Die B	919	ppi	160.9	kN/m
Tear Resistance, Die C	434	ppi	76.0	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	74.0 %
Solid: 70 hrs @ 212°F (100°C)	90.1 %
Plied: 22 hrs @ 212°F (100°C)	80.4 %
Plied: 70 hrs @ 212°F (100°C)	94.6 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 3.2 %
Change - Elongation	+ 54.7 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 2.0 %
Change - Elongation	- 51.0 %
Change - Hardness, Shore A	+ 2

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

Change - Tensile Strength	+ 2.0 %
Change - Elongation	- 51.0 %
Change - Hardness, Shore A	+ 2

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

Change - Hardness, Shore A	- 18
Change - Volume	+ 13.9 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	+ 1.6 %
Change - Elongation	- 11.8 %
Change - Hardness, Shore A	- 2
Change - Volume	0.0 %

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ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 4.6 %
Change - Elongation	- 11.3 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 7.6 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 1.6 %
Change - Elongation	- 33.8 %
Change - Hardness, Shore A	0
Change - Volume	- 1.7 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 2.5 %
Change - Elongation	- 26.2 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.2 %

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