

Compound

32501**EPICHLOROHYDRIN
50 DUROMETER
BLACK COLOR****PRODUCT DATA SHEET**

Compound 32501 is a 50 durometer black colored Hydrin elastomer.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	186 psi	1.3 MPa
Tensile Strength	1163 psi	8.0 MPa
Ultimate Elongation	520 %	
Hardness, Shore A	52 Durometer	
Specific Gravity	1.33 grams/cc	
Brittleness Temperature	-80 °F	-62 °C
Tear Resistance, Die B	116 ppi	20.3 kN/m
Tear Resistance, Die C	151 ppi	26.4 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	9.4 %
Solid: 22 hrs @ 257°F (125°C)	22.5 %
Plied: 22 hrs @ 212°F (100°C)	26.4 %
Plied: 22 hrs @ 257°F (125°C)	45.7 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 54.0 %
Change - Elongation	+ 11.5 %
Change - Hardness, Shore A	+ 5

HEAT AGED: 70 hrs @ 257°F (125°C)

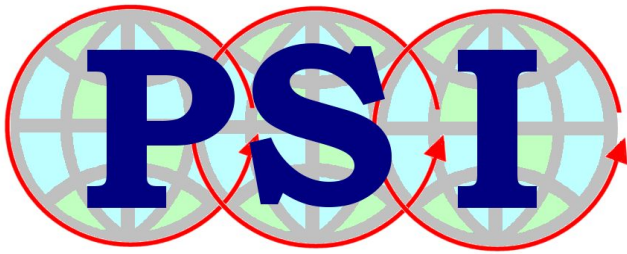
Change - Tensile Strength	+ 63.4 %
Change - Elongation	+ 3.8 %
Change - Hardness, Shore A	+ 10

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 20.6 %
Change - Elongation	- 30.8 %
Change - Hardness, Shore A	+ 14

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

Change - Tensile Strength	+ 63.4 %
Change - Elongation	+ 3.8 %
Change - Hardness, Shore A	+ 10



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Change - Tensile Strength	+ 20.6 %
Change - Elongation	- 30.8 %
Change - Hardness, Shore A	+ 14

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

Change - Hardness, Shore A	- 4
Change - Volume	+ 8.1 %

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

Change - Tensile Strength	- 5.2 %
Change - Elongation	- 1.9 %
Change - Hardness, Shore A	0
Change - Volume	- 8.4 %

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

Change - Tensile Strength	- 29.4 %
Change - Elongation	- 28.3 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 6.7 %

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

Change - Tensile Strength	- 54.4 %
Change - Elongation	- 52.8 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 21.4 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

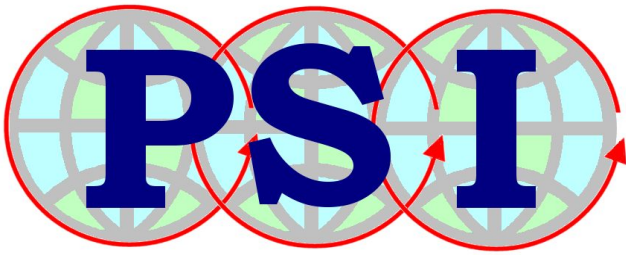
Change - Tensile Strength	+ 35.9 %
Change - Elongation	+ 1.9 %
Change - Hardness, Shore A	+ 3
Change - Volume	- 15.9 %

ASTM OIL #1: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 36.2 %
Change - Elongation	- 9.4 %
Change - Hardness, Shore A	+ 5
Change - Volume	- 16.1 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 29.0 %
Change - Elongation	- 30.2 %
Change - Hardness, Shore A	+ 6
Change - Volume	- 16.2 %



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BLACK COLOR**

PRODUCT DATA SHEET

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 92.8 %
Change - Elongation	+ 21.2 %
Change - Hardness, Shore A	0
Change - Volume	- 7.9 %

ASTM OIL #3: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 21.7 %
Change - Elongation	- 7.5 %
Change - Hardness, Shore A	0
Change - Volume	- 16.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 23.1 %
Change - Elongation	- 18.9 %
Change - Hardness, Shore A	- 2
Change - Volume	- 6.0 %