Compound

32701

EPICHLOROHYDRIN
70 DUROMETER
BLACK COLOR

PRODUCT DATA SHEET

Compound 32701 is a 70 durometer black colored high strength Hydrin elastomer. It exhibits good resistance to heat, compression set, hot petroleum based oils. It will remain flexible at low temperatures.

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

ASTM D2000 2 BF 725 B14 B34 EO14 EO34

2 BG 725 B14 B34 EO14 EO34 EF11 EF21 EA14 F17
3 BG 730 B14 EO14
4 BG 730 A14 B14 EO14
5 BG 720 A14 B14 EO14 EO34

4 BK 725 A24 B14 B34 EF11 EF21 EO14

2 CH 725 A25 B14 B34 EO15 EO35 F17
3 CH 725 A25 B14 B34 EO16 EO36
5 CH 720 A25 B14 B34 F14
6 CH 720 A25 B34 F17

Original Properties

Modulus @ 100% Elongation	386	psi	2.7	MPa
Tensile Strength	3429	psi	23.6	MPa
Ultimate Elongation	570	%		
Hardness, Shore A	69	Durometer		
Specific Gravity	1.41	grams/cc		
Brittleness Temperature	-53	°F	-47	°C
Tear Resistance, Die B	393	ppi	68.8	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	8.2 %
Plied: 22 hrs @ 212°F (100°C)	14.1 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 8.2 %
Change - Elongation	- 12.3 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 6.4 %
Change - Elongation	- 24.6 %
Change - Hardness, Shore A	+ 4

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com

HEAT AGED: 70 hrs @ 257°F (125°C) Test Tube Method	
Change - Tensile Strength	- 6.4 %
Change - Elongation	- 24.6 %
Change - Hardness, Shore A	+ 4

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)	
Change - Hardness, Shore A	- 6
Change - Volume	+ 8.9 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 11.8 %
Change - Elongation	- 17.5 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.5 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 47.0 %
Change - Elongation	- 45.6 %
Change - Hardness, Shore A	- 12
Change - Volume	+ 24.4 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 62.4 %
Change - Elongation	- 61.4 %
Change - Hardness, Shore A	- 14
Change - Volume	+ 44.3 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	- 3.9 %
Change - Elongation	- 8.8 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.1 %

ASTM OIL #1: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	- 10.3 %
Change - Elongation	- 24.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.3 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 4.2 %
Change - Elongation	- 17.5 %
Change - Hardness, Shore A	0
Change - Volume	- 0.1 %

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com

ASTM OIL #3: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	- 11.1 %
Change - Elongation	- 10.5 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 9.9 %

ASTM OIL #3: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	- 12.2 %
Change - Elongation	- 12.3 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 10.8 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 6.2 %
Change - Elongation	- 12.3 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 11.5 %

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com