Compound

32820

EPICHLOROHYDRIN
80 DUROMETER
BLACK COLOR

PRODUCT DATA SHEET

Compound 32820 is an 80 durometer black colored Epichlorohydrin elastomer. It exhibits excellent resistance to compression set, petroleum based oils and aliphatic fuels.

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

ASTM D2000 2 BF 815 B14 B34 EO14 EO34

6 BG 815 B14 B34 EO14 EO34
7 BG 815 B14 EO14 EO34 EA14 EF11 EF21

3 CH 815 A25 B14 B34 EO36
4 CH 815 A25 B14 EF13 EO35

Original Properties

Modulus @ 100% Elongation	965	psi	6.7	MPa
Tensile Strength	1989	psi	13.7	MPa
Ultimate Elongation	246	%		
Hardness, Shore A	80	Durometer		
Specific Gravity	1.55	grams/cc		
Brittleness Temperature	0	°F	-18	°C
Tear Resistance, Die B	224	ppi	39.2	kN/m
Tear Resistance, Die C	231	ppi	40.5	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	2.6 %
Solid: 22 hrs @ 257°F (125°C)	6.2 %
Plied: 22 hrs @ 212°F (100°C)	6.0 %
Plied: 22 hrs @ 257°F (125°C)	9.3 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 4.7 %
Change - Elongation	- 15.9 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 10.8 %
Change - Elongation	- 40.7 %
Change - Hardness, Shore A	+ 2

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

Change - Hardness, Shore A	- 6
Change - Volume	+ 2.8 %

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
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ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 4.1 %
Change - Elongation	- 5.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.2 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 24.7 %
Change - Elongation	- 33.3 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 16.1 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 36.6 %
Change - Elongation	- 46.3 %
Change - Hardness, Shore A	- 12
Change - Volume	+ 40.0 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 8.0 %
Change - Elongation	- 7.3 %
Change - Hardness, Shore A	0
Change - Volume	- 0.4 %

ASTM OIL #1: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	- 0.7 %
Change - Elongation	- 18.3 %
Change - Hardness, Shore A	0
Change - Volume	- 0.4 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	+ 9.8 %
Change - Elongation	- 39.4 %
Change - Hardness, Shore A	- 1
Change - Volume	- 0.4 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	- 1.3 %
Change - Elongation	- 10.2 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 6.9 %

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ASTM OIL #3: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	- 4.9 %
Change - Elongation	- 17.5 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 7.8 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 16.3 %
Change - Elongation	- 35.0 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 9.8 %

GASAHOL 70 hrs @ RT (70°F, 23°C)	
Change - Hardness, Shore A	- 13
Change - Volume	+ 56.5 %

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