Compound
55860

HIGHLY SATURATED NITRILE
75 DUROMETER - BLACK COLOR
INTERNALLY LUBED

PRODUCT DATA SHEET

Compound 55860 is a 75 durometer black colored HNBR that is internally lubed. It exhibits excellent resistance to heat and compression set.

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

ASTM D2000 2 BF 720 B14 B34 EO14 EO34 Z1

2 BG 720 B14 B34 EA14 EF11 EF21 EO14 EO34 Z1
3 BG 720 B14 EO14 Z1
4 BG 720 A14 B14 EO14 Z1
5 BG 720 A14 B14 B34 EO14 EO34 Z1

2 CH 720 A25 B14 B34 EO15 EO35 Z1
3 CH 720 A25 B14 B34 EO16 EO36 Z1
5 CH 720 A25 B14 B34 F14 Z1
6 CH 720 A25 B14 B34 Z1

4 DH 722 B16 EO16 EO36 Z1

Z1 = 75 +/- 5 Shore A

REACH COMPLIANT

RoHS Compliant

Original Properties

Modulus @ 100% Elongation	594	psi	4.1	MPa
Tensile Strength	2,993	psi	20.6	MPa
Ultimate Elongation	307	%		
Hardness, Shore A	71	Durometer		
Specific Gravity	1.20	grams/cc		
Brittleness Temperature	-38	°F	-39	°C
Tear Resistance, Die B	293	ppi	51.3	kN/m
Tear Resistance, Die C	233	ppi	40.8	kN/m

Pressure Seals
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Compression Set

Solid: 22 hrs @ 212°F (100°C)	11.5 %
Solid: 22 hrs @ 257°F (125°C)	11.6 %
Solid: 22 hrs @ 302°F (150°C)	15.2 %
Solid: 70 hrs @ 212°F (100°C)	16.0 %
Plied: 22 hrs @ 212°F (100°C)	11.6 %
Plied: 22 hrs @ 257°F (125°C)	12.6 %
Plied: 22 hrs @ 302°F (150°C)	16.6 %
Plied: 70 hrs @ 212°F (100°C)	15.0 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 1.4 %
Change - Elongation	+ 1.6 %
Change - Hardness, Shore A	+ 4

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 3.9 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 6

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 15.7 %
Change - Elongation	- 13.7 %
Change - Hardness, Shore A	+ 10

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

Change - Tensile Strength	+ 3.9 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 6

HEAT AGED: 70 hrs @ 302°F (150°C) Test Tube Method

Change - Tensile Strength	- 15.7 %
Change - Elongation	- 13.7 %
Change - Hardness, Shore A	+ 10

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DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)	
Change - Hardness, Shore A	0
Change - Volume	+ 0.3 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 8.1 %
Change - Elongation	+ 1.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 4.1 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 41.1 %
Change - Elongation	- 32.9 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 36.7 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 58.3 %
Change - Elongation	- 52.4 %
Change - Hardness, Shore A	- 13
Change - Volume	+ 58.6 %

ASTM OIL #1 (IRM 901): 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 3.1 %
Change - Elongation	+ 9.8 %
Change - Hardness, Shore A	+ 2
Change - Volume	- 3.4 %

ASTM OIL #1 (IRM 901): 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	+ 0.4 %
Change - Elongation	+ 3.6 %
Change - Hardness, Shore A	+ 2
Change - Volume	- 3.6 %

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	+ 4.4 %
Change - Elongation	+ 10.4 %
Change - Hardness, Shore A	+ 2
Change - Volume	- 3.7 %

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ASTM OIL #3 (IRM 903): 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 0.7 %
Change - Elongation	+ 9.8 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 12.5 %

ASTM OIL #3 (IRM 903): 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	+ 0.9 %
Change - Elongation	+ 9.8 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 12.9 %

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 3.6 %
Change - Elongation	+ 9.8 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 14.0 %

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