



Compound

77757**CARBOXYLATED - NITRILE
75 DUROMETER - BLACK
SELF LUBRICATING****PRODUCT DATA SHEET**

Compound 77757 is a 75 durometer black colored Carboxylated Nitrile elastomer, it is formulated with an organic lubricant to provide internal lubrication.

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

ASTM D2000 2 BF 820 B14 EO14 EO34 Z1
3 BG 830 B14 EO14 Z1
4 BG 830 B14 EO14 Z1
6 BG 820 A14 B14 EO14 EO34 F17 Z1
7 BG 820 B14 EO14 EO34 EF11 F16 EA14 Z1
Z1 = 75 +/- 5 SHORE A

Original Properties

Modulus @ 100% Elongation	643 psi	4.4 MPa
Tensile Strength	3133 psi	21.6 MPa
Ultimate Elongation	400 %	
Hardness, Shore A	79 Durometer	
Specific Gravity	1.14 grams/cc	
Brittleness Temperature	-54 °F	-48 °C
Tear Resistance, Die B	290 ppi	50.8 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	22.4 %
Plied: 22 hrs @ 212°F (100°C)	30.0 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 6.6 %
Change - Elongation	- 15.5 %
Change - Hardness, Shore A	+ 9
Change - Weight	- 2.4 %

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 6.2 %
Change - Elongation	- 51.0 %
Change - Hardness, Shore A	+ 12
Change - Volume	- 4.3 %

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

Change - Tensile Strength	- 10.0 %
Change - Elongation	- 8.3 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 7.1 %



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

Change - Tensile Strength	- 20.4 %
Change - Elongation	- 7.3 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 4.4 %

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

Change - Tensile Strength	- 64.7 %
Change - Elongation	- 41.5 %
Change - Hardness, Shore A	- 24
Change - Volume	+ 41.9 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 18.4 %
Change - Elongation	- 9.3 %
Change - Hardness, Shore A	+ 3
Change - Volume	- 4.4 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 1.4 %
Change - Elongation	- 12.5 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 13.1 %