Compound

9818

FLUORINATED
HYDROCARBON - 80 DURO
BLACK - TEFLON FILLED

PRODUCT DATA SHEET

Compound 9818 is an 80 durometer black colored fluorinated elastomer, it is filled with Teflon to provide internal lubrication. It exhibits good resistance to heat, compression set, petroleum based oils and aromatic fuels.

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

ASTM D2000 2 HK 710 A1-10 B37 B38 EF31 EO78
4 HK 710 A1-10 B37 B38 EF31 EO78
6 HK 710 A1-10 A1-11 EF31

Original Properties

Modulus @ 100% Elongation	533	psi	3.7	MPa
Tensile Strength	1422	psi	9.8	MPa
Ultimate Elongation	286	%		
Hardness, Shore A	80	Durometer		
Specific Gravity	1.89	grams/cc		
Brittleness Temperature	2	°F	-17	°C
Tear Resistance, Die B	162	ppi	28.4	kN/m
Tear Resistance, Die C	144	ppi	25.2	kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	19.5 %
Plied: 22 hrs @ 347°F (175°C)	13.8 %
Plied: 22 hrs @ 392°F (200°C)	19.6 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 6.4 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 33.4 %
Change - Elongation	+ 7.7 %
Change - Hardness, Shore A	0

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

Change - Hardness, Shore A	- 5
Change - Volume	+ 3.4 %

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

Change - Tensile Strength	- 9.8 %
Change - Elongation	- 0.3 %
Change - Hardness, Shore A	0
Change - Volume	+ 2.2 %

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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 0.4 %
Change - Elongation	+ 1.4 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 0.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 8.2 %
Change - Elongation	+ 7.3 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 1.8 %

SERVICE FLUID 101: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 17.7 %
Change - Elongation	+ 11.5 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 8.4 %

STAUFFER BLEND 7700: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 25.3 %
Change - Elongation	+ 2.1 %
Change - Hardness, Shore A	- 17
Change - Volume	+ 15.3 %

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