Compound

8718

FLUORINATED - HYDROCARBON - 70 DURO BLACK - TEFLON FILLED

PRODUCT DATA SHEET

Compound 8718 is a 70 durometer black colored Fluorinated Hydrocarbon elastomer, it is formulated with Teflon to provide internal lubrication. It exhibits good resistance to heat, petroleum based oils, aliphatic 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 A1-11 B38 EF31 EO78
6 HK 710 A1-10 A1-11 B31 EF31 EO78

Original Properties

Modulus @ 100% Elongation	278	psi	1.9	MPa
Tensile Strength	1222	psi	8.4	MPa
Ultimate Elongation	250	%		
Hardness, Shore A	71	Durometer		
Specific Gravity	1.90	grams/cc		
Brittleness Temperature	-4	°F	-20	°C
Tear Resistance, Die B	104	ppi	18.2	kN/m
Tear Resistance, Die C	104	ppi	18.2	kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	8.7 %
Plied: 22 hrs @ 347°F (175°C)	11.7 %
Plied: 22 hrs @ 392°F (200°C)	21.9 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 2.3 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 3

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 5.9 %
Change - Elongation	+ 16.0 %
Change - Hardness, Shore A	+ 4

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

Change - Hardness, Shore A	- 2
Change - Volume	+ 3.0 %

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

Change - Tensile Strength	+ 3.9 %
Change - Elongation	+ 8.0 %
Change - Hardness, Shore A	0
Change - Volume	0.0 %

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

Change - Tensile Strength	- 11.1 %
Change - Elongation	- 4.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.8 %

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

Change - Tensile Strength	- 20.3 %
Change - Elongation	- 8.0 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 4.0 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 12.1 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	- 0.5 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 5.4 %
Change - Elongation	+ 4.0 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 1.5 %

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

Change - Tensile Strength	- 6.5 %
Change - Elongation	+ 8.0 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 15.2 %

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

Change - Tensile Strength	- 24.6 %
Change - Elongation	- 8.0 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 15.2 %

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