Compound

9727

FLUORINATED HYDROCARBON
70 DUROMETER
BROWN COLOR

PRODUCT DATA SHEET

Compound 9727 is a 70 durometer brown colored general purpose Fluorinated Hydrocarbon elastomer. It exhibits good resistance to heat, compression set, 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 715 A1-10 B37 B38 EF31 EO78
	4 HK 715 A1-11 B38 EF31 EO78
	6 HK 715 A1-10 A1-11 B31 EF31 EO88

This Compound is RoHS Compliant

Original Properties

Modulus @ 100% Elongation	753	psi	5.2	MPa
Tensile Strength	1,662	psi	11.5	MPa
Ultimate Elongation	220	%		
Hardness, Shore A	72	Durometer		
Specific Gravity	2.07	grams/cc		
Brittleness Temperature	-8	°F	-22	°C
Tear Resistance, Die B	200	ppi	35.0	kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	13.2 %
Plied: 22 hrs @ 347°F (175°C)	9.2 %
Plied: 22 hrs @ 392°F (200°C)	16.7 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 0.8 %
Change - Elongation	- 4.5 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 29.1 %
Change - Elongation	+ 9.1 %
Change - Hardness, Shore A	+ 3

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DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)	
Change - Hardness, Shore A	- 2
Change - Volume	+ 4.4 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	+ 5.9 %
Change - Elongation	+ 4.5 %
Change - Hardness, Shore A	0
Change - Volume	- 0.2 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 12.2 %
Change - Elongation	- 9.1 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 3.5 %

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	+ 5.3 %
Change - Elongation	+ 4.5 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 0.3 %

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 0.8 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 1.5 %

SERVICE FLUID 101: 70 hrs @ 392°F (200°C)	
Change - Tensile Strength	- 19.8 %
Change - Elongation	+ 9.1 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 8.5 %

STAUFFER BLEND 7700: 70 hrs @ 392°F (200°C)	
Change - Tensile Strength	- 27.5 %
Change - Elongation	+ 4.5 %
Change - Hardness, Shore A	- 12
Change - Volume	+ 16.0 %

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