

Compound

9765FLUORINATED HYDROCARBON
70 DUROMETER - CREAM COLORED
FDA APPROVED MATERIALS**PRODUCT DATA SHEET**

Compound 9765 is a 70 durometer cream colored Fluoroelastomer, it is formulated with FDA approved materials. It exhibits good resistance to petroleum based oils and aromatic fuels. This compound is also suitable for milk and edible oils.

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

3-A Sanitary 18-03 Class I, II, III, & IV
CFR 21 177.2600**Original Properties**

Modulus @ 100% Elongation	608 psi	4.2 MPa
Tensile Strength	1,371 psi	9.5 MPa
Ultimate Elongation	259 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	2.16 grams/cc	
Brittleness Temperature	7 °F	-14 °C
Tear Resistance, Die B	204.0 ppi	35.7 kN/m
Tear Resistance, Die C	151.0 ppi	26.4 kN/m

Compression Set

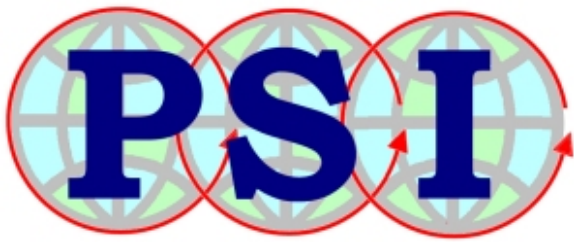
Plied: 22 hrs @ RT (73°F, 23°C)	13.5 %
Plied: 22 hrs @ 347°F (175°C)	61.0 %
Plied: 22 hrs @ 392°F (200°C)	76.5 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 22.9 %
Change - Elongation	- 28.2 %
Change - Hardness, Shore A	+ 5

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 2.6 %
Change - Elongation	+ 41.7 %
Change - Hardness, Shore A	+ 7



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Change - Hardness, Shore A	- 4
Change - Volume	+ 1.8 %

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

Change - Tensile Strength	- 10.8 %
Change - Elongation	- 9.3 %
Change - Hardness, Shore A	0
Change - Volume	+ 3.5 %

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 5.8 %
Change - Elongation	- 10.4 %
Change - Hardness, Shore A	0
Change - Volume	0.0 %

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 0.4 %
Change - Elongation	- 4.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.4 %

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

Change - Tensile Strength	- 13.2 %
Change - Elongation	- 14.7 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 9.4 %

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

Change - Tensile Strength	- 19.0 %
Change - Elongation	- 22.0 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 17.0 %