



Compound

8545FLUORINATED HYDRO-CARBON - 55 DUROMETER
BLACK - ACID RESIST.**PRODUCT DATA SHEET**

Compound 8545 is a 55 durometer black colored fluorinated hydrocarbon elastomer, it is specifically formulated for resistance to acids. It also exhibits good resistance to heat, petroleum based oils, compression set and water.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	192 psi	1.3 MPa
Tensile Strength	744 psi	5.1 MPa
Ultimate Elongation	279 %	
Hardness, Shore A	56 Durometer	
Specific Gravity	1.91 grams/cc	
Brittleness Temperature	-17 °F	-27 °C
Tear Resistance, Die B	62 ppi	10.9 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	9.2 %
Plied: 22 hrs @ 347°F (175°C)	9.2 %
Plied: 22 hrs @ 392°F (200°C)	7.7 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 10.3 %
Change - Elongation	- 14.7 %
Change - Hardness, Shore A	+ 1
Change - Volume	- 1.7 %

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 14.9 %
Change - Elongation	- 13.3 %
Change - Hardness, Shore A	+ 1
Change - Volume	- 2.3 %

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

Change - Tensile Strength	- 8.1 %
Change - Elongation	+ 3.2 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 0.6 %

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

Change - Tensile Strength	- 10.6 %
Change - Elongation	- 8.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.2 %



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

Change - Tensile Strength	- 52.7 %
Change - Elongation	- 40.1 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 5.9 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 1.9 %
Change - Elongation	- 4.3 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 0.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 3.9 %
Change - Elongation	- 4.3 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 1.8 %

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

Change - Tensile Strength	- 28.2 %
Change - Elongation	- 7.2 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 12.1 %

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

Change - Tensile Strength	- 43.7 %
Change - Elongation	- 25.1 %
Change - Hardness, Shore A	- 12
Change - Volume	+ 21.8 %