



Compound

20510FLUORINATED SILICONE
50 DUROMETER
CREAM COLOR**PRODUCT DATA SHEET**

Compound 20510 is a 50 durometer cream colored Fluorosilicone elastomer. It exhibits good resistance to petroleum based oils and compression set. It will remain non brittle at low temperatures.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	192 psi	1.3 MPa
Tensile Strength	1194 psi	8.2 MPa
Ultimate Elongation	360 %	
Hardness, Shore A	50 Durometer	
Specific Gravity	1.46 grams/cc	
Brittleness Temperature	< -80 °F	< -62 °C
Tear Resistance, Die B	180 ppi	31.5 kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C)	12.9 %
Stauffer Blend, plied: 70 hrs @	12.6 %
Plied: 70 hrs @ RT (73°F, 23°C)	8.8 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	+ 3.4 %
Change - Elongation	- 5.6 %
Change - Hardness, Shore A	+ 4
Change - Weight	- 1.2 %

STAUFFER BLEND 7700: 70 HRS @ 302°F (150°C)

Change - Tensile Strength	- 26.0 %
Change - Elongation	- 13.9 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 8.1 %

ASTM REFERENCE FUEL B: 22 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 31.1 %
Change - Elongation	- 22.2 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 20.2 %