



Compound  
**19418**  
SILICONE  
40 DUROMETER  
RED TEFLON FILLED

**PRODUCT DATA SHEET**

Compound 19418 is a 40 durometer red Silicone elastomer formulated with Teflon to provide internal lubrication.

This compound has the following physical properties:

**Original Properties**

Modulus @ 100% Elongation	87 psi	0.6 MPa
Tensile Strength	696 psi	4.8 MPa
Ultimate Elongation	440 %	
Hardness, Shore A	44 Durometer	
Specific Gravity	1.17 grams/cc	
Brittleness Temperature	< -106 °F	< -76 °C
Tear Resistance, Die B	36 ppi	6.3 kN/m
Tear Resistance, Die C	63 ppi	11.0 kN/m

**Compression Set**

Plied: 22 hrs @ 347°F (175°C) 21.9 %

**HEAT AGED: 70 hrs @ 392°F (200°C)**

Change - Tensile Strength - 2.9 %  
Change - Elongation - 10.9 %  
Change - Hardness, Shore A + 10

**HEAT AGED: 70 hrs @ 437°F (225°C)**

Change - Tensile Strength - 9.5 %  
Change - Elongation - 15.2 %  
Change - Hardness, Shore A + 3

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

Change - Hardness, Shore A 0  
Change - Volume + 0.6 %

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

Change - Tensile Strength - 32.2 %  
Change - Elongation - 26.1 %  
Change - Hardness, Shore A - 5  
Change - Volume + 5.9 %

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

Change - Hardness, Shore A - 31  
Change - Volume + 82.3 %