



Compound
19412
SILICONE
40 DUROMETER
BLACK - HIGH STRENGTH
PRODUCT DATA SHEET

Compound 19412 is a 40 durometer black colored Silicone elastomer, it is specifically formulated for high tear and tensile strength.

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

ASTM D2000 3 FC 410 A19 EA14 EO16 F1-11 G11
3 FE 412 A19 EA14 EO16 EO36 G11
8 GE 409 EA14 EO16 EO36 F19
2 GE 407 A19 EA14 EO16 EO36 19

Original Properties

Modulus @ 100% Elongation	130 psi	0.9 MPa
Tensile Strength	1251 psi	8.6 MPa
Ultimate Elongation	767 %	
Hardness, Shore A	44 Durometer	
Specific Gravity	1.15 grams/cc	
Brittleness Temperature	< -105 °F	< -76 °C
Tear Resistance, Die B	162 ppi	28.4 kN/m
Tear Resistance, Die C	239 ppi	41.9 kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C) 49.8 %

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength	+ 5.9 %
Change - Elongation	- 13.7 %
Change - Hardness, Shore A	+ 6

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

Change - Hardness, Shore A	- 1
Change - Volume	+ 1.9 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 17.7 %
Change - Elongation	- 16.4 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 4.7 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Hardness, Shore A	- 16
Change - Volume	+ 50.5 %