



Compound
19616
SILICONE
60 DUROMETER
BLACK-ELECTRICALLY CONDUCTIVE
PRODUCT DATA SHEET

Compound 19616 is a black colored electrically conductive Silicone elastomer.

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

ASTM D2000 4 GE 607 A19 EA14 EO16 EO36 F19
5 GE 607 A19 EA14 EO16 EO36 F19

This Compound is RoHS Compliant



Original Properties

Modulus @ 100% Elongation	385 psi	2.7 MPa
Tensile Strength	886 psi	6.1 MPa
Ultimate Elongation	385 %	
Hardness, Shore A	65 Durometer	
Specific Gravity	1.18 grams/cc	
Brittleness Temperature	< -100 °F	< -73 °C
Tear Resistance, Die B	51 ppi	8.9 kN/m
Tear Resistance, Die C	65 ppi	11.4 kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C)	51.4 %
Plied: 70 hrs @ 302°F (150°C)	47.7 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	+ 4.0 %
Change - Elongation	+ 13.0 %
Change - Hardness, Shore A	+ 4

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength	- 22.5 %
Change - Elongation	- 41.2 %
Change - Hardness, Shore A	+ 14



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

Change - Hardness, Shore A - 3
Change - Volume + 0.4 %

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

Change - Tensile Strength + 5.5 %
Change - Elongation + 27.3 %
Change - Hardness, Shore A - 9
Change - Volume + 7.8 %

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

Change - Hardness, Shore A + 19
Change - Volume + 51.2 %

Conductivity: ASTM D257

Resitivity, O/cm 3.0