



Compound
19788
SILICONE
70 DUROMETER
BLACK-ELECT. CONDUCT.
PRODUCT DATA SHEET

Compound 19788 is a 70 durometer black colored electrically conductive Silicone elastomer.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	601 psi	4.1 MPa
Tensile Strength	765 psi	5.3 MPa
Ultimate Elongation	128 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.21 grams/cc	
Brittleness Temperature	< -100 °F	< -73 °C
Tear Resistance, Die B	61 ppi	10.7 kN/m
Tear Resistance, Die C	62 ppi	10.9 kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C) 54.2 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength + 4.4 %
Change - Elongation - 18.2 %
Change - Hardness, Shore A + 6

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength - 3.3 %
Change - Elongation - 3.9 %
Change - Hardness, Shore A + 3

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

Change - Hardness, Shore A - 5
Change - Volume + 0.1 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength - 7.8 %
Change - Elongation + 26.6 %
Change - Hardness, Shore A - 11
Change - Volume + 10.3 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Hardness, Shore A - 43
Change - Volume + 53.2 %



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Conductivity: ASTM D257

Resitivity, O/cm

2.5