Compound
20863

FLUOROSILICONE
80 DUROMETER
BLUE COLOR

PRODUCT DATA SHEET

Compound 20863 is an 80 durometer blue colored general purpose Fluorosilicone elastomer. It exhibits good resistance to petroleum based oils and aromatic fuels. It has excellent low temperature flexibility.

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

MIL-R-25988 TYPE 1 CLASS 1 GRADE 80
AMS-R-25988 TYPE 1 CLASS 1 GRADE 80

Original Properties

Modulus @ 100% Elongation	885	psi	6.1	MPa
Tensile Strength	974	psi	6.7	MPa
Ultimate Elongation	119	%		
Hardness, Shore A	85	Durometer		
Specific Gravity	1.57	grams/cc		
Brittleness Temperature	-67	°F	-55	°C
TR-10 Temperature	-75	°F	-59	°C
Tear Resistance, Die B	85.0	ppi	14.9	kN/m
Tear Resistance, Die C	86.0	ppi	15.1	kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C)	30.7 %
Plied: 70 hrs @ RT (73°F, 23°C)	30.0 %

AMS 2629, TYPE 1: 22 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 16.6 %
Change - Elongation	- 17.0 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 19.7 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	+ 1.0 %
Change - Elongation	+ 0.8 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength	- 9.8 %
Change - Elongation	- 11.8 %
Change - Hardness, Shore A	+ 2

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

Change - Hardness, Shore A	- 5
Change - Volume	+ 7.4 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 20.3 %
Change - Elongation	+ 1.7 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 20.2 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 21.4 %
Change - Elongation	+ 16.0 %
Change - Hardness, Shore A	- 12
Change - Volume	+ 21.9 %

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

Change - Tensile Strength	- 2.1 %
Change - Elongation	+ 12.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.6 %

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

Change - Tensile Strength	- 7.5 %
Change - Elongation	+ 21.0 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 3.8 %

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