
Cord Compound F70CD Data Sheet

Material: Fluorosilicone Rubber (FVMQ)
70 Durometer, Blue

General Information:

Fluorosilicone (FVMQ) is like side chains of silicone rubber, bonding trifluoropropyl, methyl and vinyl. The mechanical and physical properties are similar to VMQ. However, FVMQ offers improved fuel and mineral oil resistance, but less hot air resistance than standard VMQ.

Cure System: *Peroxide-cured*

Standard FVMQ compounds are peroxide-cured.

Temperature Range: -60°C (-76°F) to 177°C (350°F)

Attributes:

Color: Blue

70±5 Shore A durometer

Shelf-life: Unlimited

Performs Well In:

- Fuels
- Aromatic mineral oils
- Benzene, Toluene
- Ozone and weather

Doesn't Perform Well In:

- Brake fluids
- Ketones
- Hydrazine

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Typical Properties:

Unaged Durometer (Shore A)	70 +- 5
Tensile Strength (psi)	930
Elongation %	250
Tear Resistance (ppi) Minimum	75
Compression Set %	15
Low Temperature Brittle Point (F)	-70
High Temperature Service range (F)	400 Continuous

Heat aging characteristics

After aging 70 hrs @ 392 F

Hardness change, Points	+7
Tensile strength decrease	-20%
Elongation decrease	-25%
Weight Loss	- 2 %

Fluid Resistance

	Hardness	Tensile	Elongation	Volume change
Aging 70 hrs @ 302 F in AMS 3021	-10 pts	-30%	-10%	+12%
Aging 22 hrs @ 75 F in TT-S-735, Type 111	-11 pts	-23%	-30%	+20%
Aging 22 hrs @ 77 F in Fuel B	-11	-54%	-36%	+28%
in JP-4	-7 pts	-36 %	-18%	+17%
in Methanol	-8 pts	-34%	-14%	+7%
in unleaded gasoline	-12 pts	-57%	-33%	+24%

Natural color is blue, although material may be pigmented to produce red, grey, black, white, blue, etc.

Meets requirements of Mil R 25988, type 2, class 1, grade70, AMS 3331