
Cord Compound V90CD Data Sheet

Material: Genuine Viton®
90 Durometer, Black

General Information:

Viton® is a well-known high-performance rubber that has excellent resistance to high temperature, ozone, weather, oxygen, mineral oil, fuels, hydraulic fluids, aromatics and many organic solvents and chemicals.

Cure System: *Bisphenol-cured*

Temperature Range: *Static: -32°C (-25.6°F) to 204°C (400°F)*
Dynamic: -17°C (1.4°F) to 204°C (400°F)

Attributes:

Color: Black

Durometer Shore A: 90±5

Shelf-life: Unlimited

Performs Well In:

- Petroleum products
- Fuel or blend with methanol or ethanol
- Diesel or blend with biodiesel
- Mineral oil and grease
- Silicone oil and grease
- High vacuum
- Ozone, weather and very high temp. air
- Strong acid

Doesn't Perform Well In:

- Ketones
- Low molecular weight organic acids
- Superheat steam
- Low molecular weight esters and ethers
- Phosphate ester based hydraulic fluids

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Description: 90 durometer black Viton A fluoroelastomer compound.

Application Temperatures: **High Temp:** 400° F (204° C)
Low Temp: Dynamic: 1.4°F (-17°C) Static: -25.6°F(-32°C)

Compound Information:

- **% Fluorine:** 66%
- **Cure System:** Bisphenol
- **Color:** Black
- **Compounded for:** Extrusion, transfer & compression molding.
- **Form:** Slab, Strip or Calendered Sheet.
- **Storage:** Preserves best when stored in a cool/dry environment.
Rheometer retesting suggested @ 6 months.

Typical Rheological Properties:

Conditions: MDR .5 ARC 6 minutes @ 370° F (188° C) Per ASTM D-6204.

- **Min torque:** 2.75 **Inch/lbs.**
- **Max torque:** 41.00 **Inch/lbs.**
- **Scorch Ts1:** 0.45 **Minutes.**
- **Cure Tc90:** 0.85 **Minutes.**
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Typical Physical Properties:

Conditions: Press cured 10 minutes @ 370° F (188° C) and Post cured for 16 hours @ 480° F (250 °C).

- **Tensile Strength** (Per ASTM D-412): 2290 **PSI** (15.8Mpa)
- **100% Modulus** (Per ASTM D-412): 2075 **PSI** (14.3 Mpa)
- **Ultimate Elongation** (Per ASTM D412): 115 %
- **Shore A Hardness** (Per ASTM D-2240): 90 **Pts.**
- **Specific Gravity** (Per ASTM D-297): 1.84 (**H2O=1**)
- **Compression Set** (Per ASTM D-395): 12.20 % **CONDITIONS:** 22 hrs @ 392 °F (200°C)

Compounded to Meet:

ASTM D-2000 Call out: M3HK 910 A1-10 B38 C12 EF31 EO78

This information is based on tests performed by vendors that we believe are reliable. Your results may vary due to differences in equipment, test types or conditions. It is intended for persons having technical skill and at their own discretion or risk.

You must evaluate and determine whether this compound is suitable for your intended application.