

# 90 Durometer Black Viton™

## 90 Durometer Black Viton™ (A Fluoroelastomer Compound)

### Compound Information:

- Application Temperatures:
  - High Temp: 400° F ( 204° C)
  - Low Temp: Dynamic: 1.4°F (-17°C) | Static: -25.6°F(-32°C )
- % Fluorine: 66%
- Cure System: Bisphenol
- Color: Black
- Compounded for: Molding:(Compression, Transfer) and Extrusion
- Form: Slab, Strip or Calendered Sheet.
- Storage: Preserves best when stored in a cool/dry environment. Rheometer retesting suggested @ 6 months
- Cured Products: O-Ring, Profile, Sheet, Tubing
- Stock: Yes

### 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

### 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 (15.8 Mpa)  
100% Modulus (Per ASTM D-412): 2075 PSI (14.3 Mpa)  
Ultimate Elongation (Per ASTM D-412): 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
- AMS 3218C

This information is based on tests performed by COR Manufacturing and 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.

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