

# 75 Durometer Black Viton™

## 75 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, Injection, Transfer)
- Form: Pre-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 Cord, Profile, Sheet, Tubing
- Stock: Yes

### Typical Rheological Properties:

**Conditions: MDR .5 ARC 4 minutes @ 370° F (188° C) Per ASTM D-6204.**

Min torque: 1.30 Inch/lbs  
Max torque: 23.25 Inch/lbs  
Scorch Ts1: 0.65 Minutes  
Cure Tc90: 1.10 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): 2250 PSI (15.5 Mpa)  
100% Modulus (Per ASTM D-412): 920 PSI (6.3 Mpa)  
Ultimate Elongation (Per ASTM D-412): 198 %  
Shore A Hardness (Per ASTM D-2240): 76 Pts.  
Specific Gravity (Per ASTM D-297): 1.85 (H2O=1)  
Compression Set (Per ASTM D-395): 8.56 % [Conditions: 22 hrs@ 392 °F (200°C)]



### **Compounded to Meet:**

- ASTM D-2000 Call out: M6HK 810 A1-10, B38, C12, EF31, EO88, Z1  
Z1=75+/-5 DUROMETER SHORE "A".
- AMS 3216H

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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