



## Marco Compound # L1004 80 Durometer, Black, Specialty Aflas® Technical Datasheet

### **General Description:**

Aflas® exhibit excellent chemical, heat and steam resistance. They provide superior performance in water, steam and virtually all caustics making them ideal for pharmaceutical and biotechnology manufacturers that use steam and caustic chemicals in the sterilization process. L1004 provides excellent performance in SIP (steam in place), CIP (clean in place) and WFI (water for injection) applications. Please contact [engineering@marcorubber.com](mailto:engineering@marcorubber.com) for assistance in selecting a specialized compound when increased resistance to temperature, chemicals, or physical properties is required.

### **Features:**

- FDA, USP Class VI and 3-A Sanitary Standard Compliant
- Excellent steam and caustic resistance up to 400° F (204° C)
- Very good chemical resistance
- Low TOCs and metal extractables
- Longer life in SIP, CIP and WFI applications.
- Resistant to highly reactive organic and inorganic chemicals
- Excellent volume resistivity (greater than  $10^{16}\Omega$  cm)
- Radiation resistance up to 200 MRad of gamma-ray radiation
- Unaffected by extended exposure to 200 °C steam
- Continuous use at 230 °C
- Resistant to highly reactive organic and inorganic chemicals

### **Limitations:**

- Aromatic Fuels
- Ketones
- Carbon tetrachloride
- Chlorinated Hydrocarbons
- Organic Refrigerants

### **Service Temperature:**

15 to 450° F

**TYPICAL PHYSICAL PROPERTIES**

<b>ORIGINAL PROPERTIES</b>	<b>Typical Value</b>
Hardness, Shore A, ASTM D2240 (Z1=75+/-5)	80
Color	Black
Tensile Strength, psi, ASTM D412	2600
Ultimate Elongation, %, ASTM D412	170
Specific Gravity	1.65
Modulus @ 50% Elongation, psi	845
Modulus @ 100% Elongation, psi	1710
Compression Set @ 25% Deflection. 70 hours @ 392o F (200o C), in Air	30

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