

# Burke Industries: Core Technical Testing Services

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At Burke Industries, we ensure the highest quality and reliability of our rubber and polymer products by performing a range of essential ASTM-standard tests. Our expertise in these rigorous tests allows us to meet and exceed industry standards. Below are the key technical tests we perform:

## Hardness, Durometer

Standard: ASTM D2240

We measure the hardness of rubber materials using a durometer to ensure they meet specific resistance and durability requirements.

## Tensile Properties

Standard: ASTM D412

This test evaluates the tensile strength, elongation, and tensile stress at break of rubber and thermoplastic materials.

## Tear Strength

Standard: ASTM D624

We assess the tear strength of rubber materials to determine their resistance to tearing under stress or force.

## Specific Gravity / Relative Density

Standard: ASTM D297

We measure the specific gravity or relative density of rubber compounds, providing insight into the material's overall composition and quality.

## Ash Test

Standard: ASTM D297

This test measures the amount of inorganic residue left after a rubber sample is burned, ensuring proper material formulation.

## Peel Adhesion

Standard: ASTM D429

We test the adhesive strength between rubber and other materials, ensuring durability and reliability in bonding applications.

## Compression Set

Standard: ASTM D395

Our compression set test determines the material's ability to return to its original thickness after prolonged compressive stress, critical for gasket and seal performance.

### **Dry Heat Resistance**

Standard: ASTM D573

We evaluate how rubber materials withstand elevated temperatures over time without losing their essential properties.

### **Fluid Resistance**

Standard: ASTM D471

This test measures a material's resistance to specific fluids, ensuring performance in environments where exposure to liquids is critical.

### **Mooney Viscosity**

Standard: ASTM D1646

We assess the viscosity and flow characteristics of rubber compounds, providing critical data for processing and performance.

### **Rheology - ODR (Oscillating Disc Rheometer)**

Standard: ASTM D6601

The ODR test provides valuable information about the cure characteristics of rubber compounds, including cure time and torque.

### **Rheology - MDR (Moving Die Rheometer)**

Standard:

We use the MDR to obtain detailed insights into the curing and processing characteristics of rubber compounds, ensuring optimal performance during manufacturing.

At Burke Industries, our state-of-the-art testing facilities and adherence to ASTM standards allow us to deliver reliable, high-quality rubber products that meet your specific application needs. Contact us today to learn more about how our testing services can ensure the quality of your materials.