

Electrical, Mechanical, and Physical Property Testing of Polymers, Fluoropolymers and Plastics

Our extensive and quality testing capabilities are built on a 40-year foundation of expertise in the field of polymer science. With the latest in analytical technology and experienced professionals, we are able to provide routine and specialized testing services for industrial and commercial markets that include:

-Electrical-

Volume and Surface Resistivity and Conductance

- ASTM D257 DC Resistance or Conductance of Insulating Materials
- ASTM D991 Rubber Property – Volume Resistivity of Electrically Conductive and Antistatic Products
- ASTM D4496 DC Resistance or Conductance of Moderately Conductive Materials
- Keithley Model 863/6487 wide range resistance meter, ETS Model 832 Clamps, ETS Model 831 test fixture and Keithley 8009 test fixture.

Dielectric Strength and Breakdown Voltage at Commercial Power Levels

- ASTM D149
- Phenix Technologies AC and DC test unit 0-50 kVAC @ 40 mA and 0-100 kVDC @ 10 mA
- Test conducted in air or oil, opposing cylindrical rod 0.25 in. (6.4 mm) electrodes, Tube testing electrode configuration per D1675/D876 is also available.

-Mechanical and Physical-

Tensile

- A2LA Accredited ASTM D638 Dog Bone and Tubing Samples
- ASTM D882 Thin Sheet Material
- ASTM D2256 Monofilaments and Yarns

Coefficient of Friction

- ASTM D1892

Compression

- ASTM D695

Flexural Properties

- ASTM D790
- Instron 4411 Blue Hill Software, Extensometer, 2, 10, 20, 100, 200 and 1,000 lb load cells

Gurley Air Flow

- ASTM D726

Density

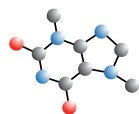
- A2LA Accredited ISO 1183-3 for Density
- Micromeretics

Durometer Hardness, Shore A and D

- ASTM D2240

Membrane Bubble Point, Mean Pore Size, Air flow

- ASTM F379
- CPI Porometer



Polymathic Analytical Labs

A Zeus Company

Phone: 866-272-4710

Email: support@polymathiclabs.com

3737 Industrial Blvd. Orangeburg, SC 29118