



### Chemical Polymer Testing

Fourier Transition infrared spectroscopy  
Scanning Electron Microscope/EDS  
Detector (SEM/EDS)  
Gas Chromatography/Mass  
Spectrometry

### Thermal Analysis

Differential Scanning Calorimetry  
(DSC)  
Thermogravimetric Analysis (TGA)  
Dynamic Mechanical Analysis (DMA)  
Melt flow Indexer (MFI)

### Mechanical/Physical Testing

Tensile Testing  
Compression Testing  
Flexural Testing  
Adhesion/Peel Testing  
Hardness Testing

## Polymer Testing

*Anderson Laboratories Inc.* can assist in many efforts in polymer testing. Although we are primarily a metallurgical intensive laboratory we can coordinate activities to get you the results that you need respective to chemical, thermal analysis, and mechanical/physical testing. We have a group of trusted and approved polymer and rubber laboratories that we partner with to provide solutions for your application. Think of us as a coordinator for your polymer testing needs. We mostly coordinate with three main polymer tests.

Chemical polymer testing is used to define the chemical composition of a sample by identifying functional groups in chemical structures. This provides vital information in any of your quality process control programs.

We use thermal analysis to measure properties of polymer components, thermal degradation temperatures, and filler content of polymers, thermal transitions of polymers resulting from changes in temperature, time, frequency, force, and strain of a sample.

Mechanical/Physical testing allows us to produce a tensile stress of a particular sample. This includes modulus, strength, and elongation at the samples breaking point. These test results allow our customers to verify material performance and process control.

For more information about the polymer testing we provide, please contact us at our laboratory in Greendale, Wisconsin.

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