



# Your Independent Testing Lab for Polymers, Plastics and Chemical Analysis

## SCIENTIFIC EXPERTISE AND TECHNICAL GUIDANCE FROM YOUR FIRST POINT OF CONTACT THROUGH RECEIVING YOUR RESULTS

Our scientists excel at unraveling your chemical and material challenges and can assist you with all stages of your product's life cycle. You'll benefit from our decades of practice across multiple scientific fields and various industries. Our state-of-the-art labs are equipped with world-leading instrumentation to ensure that we detect, measure and test your materials with the highest degree of precision and accuracy. We can test according to a multitude of industry standards including ASTM, ISO, CFR and USP monographs. If your product requires, we can also customize and validate new methods to meet your specific needs.

- Gel Permeation Chromatography (GPC/SEC)
  - Organic Solvents
  - Aqueous
  - Hexafluoroisopropanol (HFIP)
  - High-Temperature (HT-GPC)
    - Olefins
    - PPS
  - Solubility Studies
  - Derivatization for PEEK
- Gas Chromatography
  - Screening for Unknown Compounds and Additives
  - Mass Spectrometry (GC-MS)
  - Flame Ionization Detector (FID)
  - Headspace Analysis
  - Liquid Injection
  - PPM and PPB Detection Limits
  - Custom Test Methods
- High Performance Liquid Chromatography (HPLC)
  - Hindered Amine Light Stabilizers (HALS)
  - Phenolic Antioxidants and UV Absorbers
  - Quantitative Analysis
- Liquid Chromatography Mass Spectrometry (LC-MS)
  - Screening for Unknown Compounds and Additives
  - PPM and PPB Detection Limits
  - PFAS / PFOS Screens
  - Custom Test Methods
- General Chromatography Methods
  - Screening for Unknown Compounds
  - Volatiles and Odor Screen
  - Polymer Additive Screen
  - Purity Analysis
  - TOF for PFAS Screen
  - Phthalates Screen
  - Residual Monomer Analysis
  - Residual Solvent Analysis
    - Toluene
    - Acetone
    - Methanol
    - Others
  - Residual Blowing Agent Analysis
  - Formaldehyde Analysis
  - Acrylamide Analysis
  - Acrylic Acid Analysis
  - Dioxane Analysis
  - USP Monographs
  - Method Development
  - Method Validation (ICH Q2(R1))
  - Custom Methods and Others



## When you need to be sure

We are the world's leading testing, inspection and certification company.

**ISO/IEC 17025**  
**FDA Registered**  
**cGMP Compliant**  
**DEA Licensed**

**Learn More about our**  
**[Quality Management Systems.](#)**



- Fourier Transform Infrared Spectroscopy (FTIR)
- Nuclear Magnetic Resonance Spectroscopy (NMR)
  - Proton (1H)
  - Carbon (13C)
  - High Temperature Carbon (HT 13C)
  - Others
- UV-Visible Spectroscopy (UV-VIS)
- Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
  - 65 Element Screen, Semi-Quantitative
  - Single Element, Quantitative
- X-Ray Fluorescence Spectroscopy (XRF)
  - Heavy Metals Screen
  - RoHS Metals Screen
  - Toxins in Packing Clearinghouse (TPCH) Screen
- Energy Dispersive Spectroscopy (EDS)
  - Unknown Particle Analysis
  - Elemental Analysis
- Hot Stage Microscopy
- Keyence 3-D Digital Microscopy
  - Film Layer Analysis
  - Failed Surface Analysis
- Optical Birefringence
- Scanning Electron Microscopy (SEM and SEM/EDS)
- Transmission Electron Microscopy (TEM)
- Differential Scanning Calorimetry (DSC)
  - Heat/Cool/Heat
  - Heat Capacity by Modulated DSC
  - High Temperature Cell
  - Oxidative Induction Times (OIT)
  - Degree of Cure for Thermosets
- Thermogravimetric Analysis (TGA)
  - Thermal Decomposition Temperature
  - High Resolution
  - Filler Content
  - Polymer Lifetime Analysis
- Ash Content by Combustion
- Dynamic Mechanical Analysis (DMA)
  - Time-Temperature Superposition Principle (tTSP)
  - Storage Modulus, Loss Modulus
- Melt Flow Rate (MFR)
- Rotational Rheology
  - Shear Sweep
  - Temperature Sweep
  - Method Development / Custom
- Capillary Rheology
- Aging and Chemical Exposure
  - In Vitro Aging for Resorbable Implants
  - Shelf Life/Stability
  - Custom Based on Application
- Density / Specific Gravity
- Dimensional Analysis
- Durometer Hardness
- Tensile Strength and Modulus
- Flexural Strength and Modulus
- Compression Strength
- Izod and Charpy Impact
- Custom Test Fixtures
- Coefficient of Friction
- Custom Test Methods
- Dilute Solution Viscosity
  - High Temperature for Olefins
  - Intrinsic and Inherent Viscosity
  - Relative Viscosity
  - PET, Nylon, PLA, PLGA, Others
- Extractions
  - Filler Content
  - Food Contact Testing (21 CFR)
  - Total Extractables
- Titrations
  - Halide Ion
  - Karl Fischer for Moisture
  - Potentiometric
  - End Group