

# Thermal Testing

## for 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:

### DSC - Differential Scanning Calorimetry

- Tg, Melt Temperature, Heat of Fusion, % Crystallinity, Specific Heat
- A2LA Accredited for ASTM D3418 thermal transitions of polymers
- A2LA Accredited for ASTM D4591 thermal transitions of fluoropolymers
- ASTM E1269 Specific Heat
- Mettler DSC823
  - -150 to 600 °C Temperature Range with Liquid Nitrogen cooling
  - TA Q2000 with Modulated DSC capability
  - -180 to 725 °C Temperature Range with Liquid Nitrogen cooling

### TGA - ThermoGravimetric Analysis

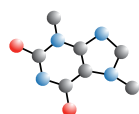
- Decomposition Temperatures, Blend Composition, Thermal Stability Studies, % Filler
- A2LA Accredited for ASTM E1131
- Mettler SDTA851
- TA SDT Q600 with Pfeiffer ThermoStar Mass Spectrometer for Evolved Gas Analysis

### DMA - Dynamic Mechanical Analysis

- ASTM D4440 DMA Melt Rheology
- ASTM D5023 DMA Flexural Properties (3 point bend)
- ISO 6721-4 DMA Tensile Vibration – Non-resonance method
- Mettler SDTA861
  - 40 N Load Cell, -150 to 500 °C temperature range with Liquid Nitrogen cooling

### MFR - Melt Flow Rate

- ASTM D1238 Melt Flow Rate of Thermoplastics
- Dynisco Melt Flow Indexer



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