SERVICES and APPLICATIONS

- Plastic, Bioplastic, Polymer, Elastomer, Rubber, Syntactic Foam and Composite Material Testing Laboratories
- Analytical Laboratory Services: Plastic Testing Laboratory
- Product De-formulation, Reverse Engineering, Composition Identification
- Plastic Additive Laboratory; BPA, Phthalates, Fillers, Slip, Antioxidants, Stearate, Stearamide, UV Block, Paraben
- Rheology, Blending, Mixing, and Extrusion
- Protective Packaging Development and Testing: Foams, Plank, Bags, Inflatable, Films, Barrier Films, Bubble Wrap
- Stretch Wrap, Cling Wrap, Shrink Wrap Film
- Residual Foaming and Blowing Agents in Foam Products, Warehousing, LEL and Aging Models
- Chemical Foaming Agent Performance Testing, Activation Temperature, Weight Loss, Loading Percentage
- Product Stability & Compatibility Testing
- Small Scale Compounding and Custom Products
- Rigid Gas Permeable Contact Lens Products (RGP), Hydrogel Lenses, Transdermal Patch, and Coatings
- Cosmetics & Pharmaceuticals: Complete Analysis, Purity, Shelf life stability
- Medical Devices, Implants & Catheter Tubing
- Epoxy, Epoxies, Prepregs, Nanotubes, Laminates & Composites
- Contamination and Contaminant Identification
- Plastic Failure Analysis
- Litigation and Patent Infringement Support
- Custom Test Method Development, ASTM and ISO Test Methods, QC and QA programs
- Materials Analysis & Identification
- Consulting

CAPABILITIES

- Rheology, Modeling, and Flow Analysis
  - Rheometrics Solids Analyzer (RSA)
  - Dynamic Mechanical Analysis (DMA)-Viscoelastic Properties
  - Stress Rheometer (SR5)-Melt Strength Rheology
  - Capillary Rheometer
  - Torque Rheometer
  - Extrusion Plastometer, Melt Flow Rate
  - Rheometry and Rheological Properties
  - Brookfield Viscometer
  - Intrinsic Viscosity, Viscosity Number
- Thermal Analysis
  - Differential Scanning Calorimetry (DSC), Tg, Tm, Tc Transition
- Chemical Analysis
  - Fourier Transform Infrared Spectroscopy (FTIR)
  - Micro FTIR
  - UV-Vis Spectroscopy
- Physical Properties
  - Density and Specific Gravity
  - Ash Content
  - Shore Hardness
- Chromatography
  - Gel Permeation Chromatography (GPC) with RI, MALS, DAD
  - Gas (GC), Gas with Mass Spectroscopy (GCMS)
  - Liquid (HPLC)
  - Thin Layer (TLC)
Mechanical Analysis
  - Universal Testing Machine (UMT)
  - Cycle Testing and Fatigue
  - Custom Grips and Fixtures
  - Tensile Testing and Elongation
  - Tensile Strength and Modulus
  - Compression Strength and Set
  - Yield point and Young's Modulus
  - Break Point and Toughness
  - Creep and Stress Relaxation

- 3 Point Bending Flexural Modulus
- Poisson’s Ratio
- Coefficient of Friction
- Puncture Resistance
- Stretch Wrap, Cling Peel
- Stress Relaxation and Creep Recovery
- Elastic Recovery and Permanent Deformation and Stress Retention of Stretch Wrap Film
- Tear Strength and Trouser Tear

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