

Product and Component Testing Services

Associated Polymer Labs has full service materials testing and characterization laboratories specializing in Plastics, Polymers, Elastomers, Foam, Rubber, Composites, Oils and Natural Products.

APL provides training in the operation of analytical instruments and on-line or end of line product inspection. Our scientists and engineers publish and present papers for the society of plastics engineers, www.spe.org. We provide a simple summary report that easily explains the complex data and graphs. Allow our experts to interpret the data and provide the answers, saving time and money.

Call and discover how APL can help your company. The first step to a solution is to ask.

Specialized Services

- Analytical Services
- Component or Contaminate Identification
- Deformulation or Reverse Engineering
- Quality Programs to Certify Products and Raw Materials
- Failure Analysis
- Physical and Mechanical Testing
- Dynamic Mechanical Analysis
- Rheology, Modeling, and Flow Analysis
- Melt Rheology to Measure Melt Strength and Processibility Window
- Protective Packaging Processing and Testing
- Formulation and Product Development
- Polyolefin Foam and Film, and Multilayer Film Processing
- Small Scale Compounding
- Single Lumen Catheter Tubing Material Process Evaluation
- Rigid Gas Permeable Contact Lens Products (RGP)
- Protective Packaging Development and Testing: Foams, Plank, Bags, Films, Barrier Films, Bubble Wrap
- Residual Blowing Agents in Foamed Products, Warehouses, Aging Models, and Environmental Air Permits
- Composting Plastics

Examples

- 1) A company wanted to start making bubble wrap and compete with “the big boys”. APL’s Engineers provided the experience to make the proper resin(s) selection to save 30% on material costs, increase line speeds, and reduce scrap. APL also setup end of line testing for quality inspections and specifications.
- 2) A foam manufacturer had to change resin suppliers but the new resins were not working and the scrap was building up. Scientists at APL quickly measured the processibility window and melt strength of the resins and discovered the “new resins” were inadequate. The company was already committed to purchase X amount of resin. APL recommended using a blend based on rheological data to create a better product. The blend was made from virgin resin and recycled resin, saving money and creating a green product.
- 3) A customer had a product made in China and wanted to know the components, by weight that made up the product. APL was able to identify the major components then reverse engineer to establish the weight percentages.
- 4) A medical device company had problems injection molding parts because the parts would break while sitting on the shelf. APL applied dynamic mechanical analysis to measure the residual stresses and optical microscopy to show the fractures had a pattern. The resin was over compounded and degrading.

Corporate Office

3 Pheasant Walk, Queensbury, NY 12804

518-792-1849

Laboratory

453 County Route 45, Argyle, NY 12809

518-638-8322

email: info@testplastic.com

www.testplastic.com

www.globalspec.com www.ides.com