



## Lab Services

### DESCRIPTION

The Exton Technical Center Labs are well equipped to handle a variety of testing, compounding/formulation and specimen fabrication requirements to provide support to the AFLAS product line and our customers.

### TESTING EQUIPMENT

- Instron Load Frames models 3345 and 4443 with 5000N load cells
- Alpha RPA 2000 Rubber Process Analyzer
- Capillary Rheometer
- Electrical High Resistance Meter
  - Surface and volume resistivity
- Shore Model S1 hardness tester
- Brittle Point Tester (with 2cSt silicone oil bath)
- TA Instruments Q Thermal System. (DMA, TGA, TMA, DSC)
- Perkin Elmer Spectrometers:
  - "Spectrum 1" FTIR (Transmittance and ATR)
  - "Lambda 950" (UV/vis/Near IR)
- Color Spectrophotometer (color matching)
- Parr Pressure Vessel, 1800psi (124 bar)
  - For live steam and above atmospheric pressure liquid and gas immersion
- Aluminum heater blocks for immersion testing
- Constant Load and Constant Deflection compression set fixtures
- Various gas blanket and vacuum ovens
- Scanning electron microscopy and energy dispersive spectroscopy (SEM/EDAX)

### COMPOUNDING

- Single and Twin Screw Extruders
- 3" and 6" Two Roll Mill with temperature controlled rollers
  - Standard batch size is 500 grams
- Lab-scale Internal Mixer/Rheometer with various rotor configurations
  - Approximately 100 gram batch size

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**AGC**

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### SAMPLE PREP

- Heated Platen Press compression molder
- Slab, o-ring, adhesive overmolding (ASTM Method B) and sponge molds
- 100 ton compression molding equipment with Isoplaten<sup>®</sup> technology
- ASTM dies for cutting specimens from slabs

### AFLAS LAB SERVICES

The Exton Technical Center is committed to helping our customers achieve successful results with their AFLAS project. We can provide testing services, troubleshoot your formulation or assist in developing your product. If required, we can also help coordinate testing by third party laboratories. If there is a service you require that is not listed, please inquire about what you need. We are constantly upgrading our lab and services to meet your requirements.

### CONTACTS

To discuss your requirements, please contact your Account Manager or either of the following:

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Isoplaten<sup>®</sup> is a registered trademark of Acrolab, Ltd.

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