Technical Center Capabilities

Fluon+™ Enhanced Material Science
AGC Fluon™ Technical Center

Opened in 2007

- Application Development
- Product Development
- Technical Support
Products Supported

- Fluon® MPC
  Melt Processable Compounds

- Fluon® FPC
  Filled PTFE Compounds

Your Dreams, Our Challenge
Physical Testing

- Wear testing
- Hardness
- Deformation under load
- Drop weight impact

Nine Wear Testers

Fluon+ FPC
Filled PTFE Compounds
Testing Capabilities

• Instron Tensile Strength and Elongation (with environmental chamber)
• Specific gravity
• Nitrogen tube furnace for filler content
• Bulk density
• Particle size analysis
Thermal Analysis

- Differential Scanning Calorimetry (DSC)
- Thermogravimetric Analysis (TGA)
- Dynamic Mechanical Analysis (DMA)
- Thermo-mechanical Analysis (TMA)
- Capillary Rheometry
- Melt Flow Index
Other Testing Capabilities

- Specific gravity
- Bulk density
- Color spectrophotometry (CIELab)
- Pigment dispersion analysis
- Fourier Transform Infrared Spectrophotometry
- Infrared microscopy
- UV-Vis spectroscopy
- Scanning Electron Microscopy with X-ray elemental analysis
- Surface and Volume conductivity/resistivity
- Optical microscope with particle size analysis capability
Application & Product Development

- Milling and pre-blending equipment
- Twin-screw compounding extruder
- Single-screw compounding extruder
- 110 ton injection molder
- Film extrusion line
- Compression molder
- Internal mixer for small batches
Application Development

- Blue M PID controlled oven for sintering (inert gas)
- South Bend engine lathe
- Automolder
- Sonic & air jet sieves
- Ro-Tap sieve-shaker
- Carver hydraulic presses
- Various billet & test specimen molds
Contact Us to Discuss Your Application Challenge

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