



Technical Center Capabilities

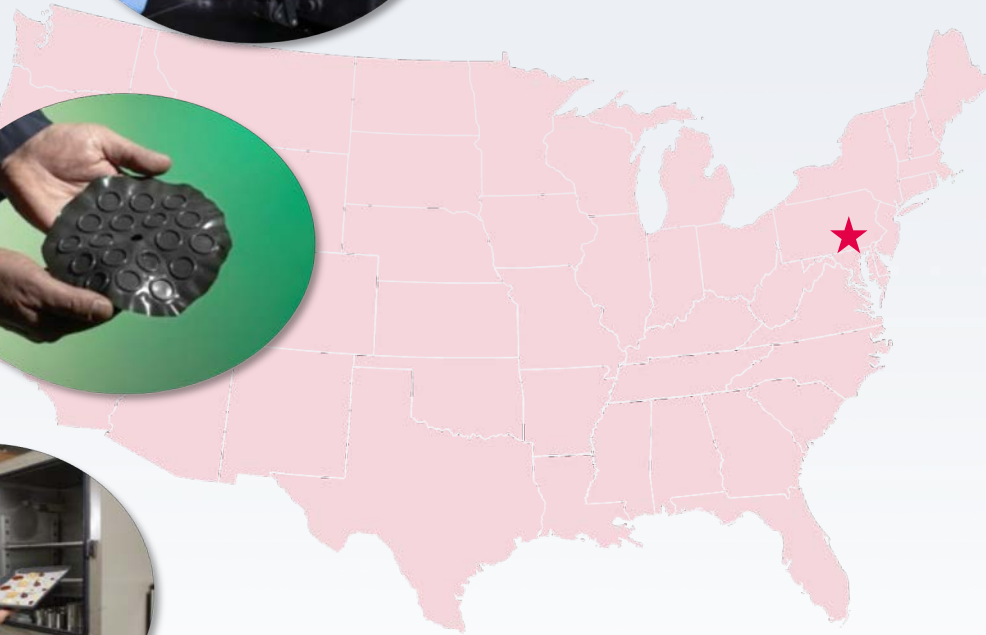
Fluon+™ Enhanced Material Science



Your Dreams, Our Challenge



AGC Fluon⁺™ Technical Center



Opened in 2007

- Application Development
- Product Development
- Technical Support

Your Dreams, Our Challenge



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Products Supported



Fluon⁺™ MPC
Melt Processable Compounds



Fluon⁺™ FPC
Filled PTFE Compounds

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Physical Testing

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

A red rectangular banner with white text is positioned at the bottom of the photograph. The photograph shows a row of nine industrial wear testing machines, each with a stainless steel frame and a control panel. The machines are labeled 'LEWIS RESEARCH, INC.' and 'LRT-10'. They are arranged in a line, and the one in the foreground has its door open, revealing a white cylindrical component inside.

Nine Wear Testers

Testing Capabilities

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

A red rectangular box with the text 'Tensile Elongation Test' in white, sans-serif font. The box is positioned at the bottom left of the slide, partially overlapping a background image of a tensile testing machine. The machine has a yellow frame and black components, with a sample being tested.

Tensile Elongation Test

Thermal Analysis

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

A photograph of a thermal gravimetric analyzer (TGA) setup. It shows a sample pan hanging from a balance arm, positioned above a furnace. The background is a solid blue color.

Thermal
Gravimetric
Analyzer

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



Single Screw Extruder

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



Automatic Molding Machine



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Contact Us to Discuss Your Application Challenge



Learn more

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