

# MATERIAL TESTING LAB

We perform in-house testing to meet ASTM, AMS, MIL-specs, and custom standards.

## CORE CAPABILITIES:

- Dimensional Stability – AMS3678
- Moisture Content – ASTM D6980
- Specific Gravity – ASTM D792
- Hardness Shore D – ASTM D2240
- Zero Strength Time (ZST) – ASTM D1430
- Tensile properties- ASTM D638 & D1708
- Compressive properties – ASTM D695



# ADVANCED INSTRUMENTATION & ANALYSIS

## FTIR + MICROSCOPE

- IR Spectrum: 4000nm to 600nm (Mid-IR)
- Organic/inorganic ID, micro-particle detection, crystallinity

## SEM + EDS ELEMENTAL ANALYSIS

- Up to 100,000x magnification
- 10nm resolution
- Point, line, and mapped data
- Accepts up to 100mm x 100mm x 65mm samples
- Backscattered/secondary imaging in multiple vacuums

## THERMAL ANALYSIS (DSC + TGA)

- Small samples: 10–15 mg
- Determines decomposition, filler %, melting/crystallization points, glass transitions, specific heat



# ADVANCED MATERIAL TESTING & MOLDING SOLUTIONS

High-performance polymers. Precision manufacturing. Certified testing.

Let's build what's next—together.

**PBY**  
PLASTICS



# COMPRESSION MOLDING & CLEANROOM CAPABILITIES



## Our Facility

- On-site material testing lab
- In-house compression molding
- ISO 6 Class 1000 Cleanroom
- Custom near-net shape capabilities
- Stock of standard and oversized rods, sheets, and tubes

Our facility is built to solve your most complex material challenges.

### PRODUCTS

- PFA, FEP, PVDF, PCTFE, ETFE, PTFE, and Modified PTFE
- Semiconductor-grade components
- FDA/NSF compliant polymers

### MOLDED PRODUCT RANGE

- Rods, Tubes: 1.5" to 50" OD
- Sheets: 0.010" to 2" thick | 6" x 6" to 36" x 36"
- Discs: up to 28.75" OD (capabilities up to 50")
- Sheets/Rods: 0.125" up to 2.75"
- Custom near-net shapes available

### ISO 6 / CLASS 1000 CLEANROOM

- HEPA filtered for  $\leq 1,000$  particles  $\geq 0.5 \mu\text{m}/\text{m}^3$
- Materials produced:
  - Virgin materials: PTFE, PFA
- Controlled purity for semiconductor and specialized use cases.

## WORK WITH PBY PLASTICS

Your one-stop partner for performance polymers, certified testing, and precision molding

### Contact Us:

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Let's talk about your next project – custom shapes, cleanroom components, or lab analysis.