



# Capability Statement

Independent materials consulting for root-cause clarity

CLEARROOT MATERIALS LLC

## Materials expertise for confident decisions.

ClearRoot helps manufacturers identify root causes, interpret technical evidence, and make confident engineering decisions.



Founder-led

**Matthew Bucchino, Ph.D.**

Founder & Principal Materials Consultant

**Ph.D.**  
EXPERTISE

**100%**  
INDEPENDENT

**Nationwide**  
ANALYTICAL NETWORK

## Core consulting services

### Polymer Failure Analysis

Cracking, delamination, degradation, coating failures, environmental stress cracking, and performance loss.

### Materials Identification & Characterization

Material confirmation, supplier qualification support, competitive benchmarking, and material change risk reduction.

### Contamination & Chemical Investigation

Residues, foreign material, discoloration, surface contamination, chemical incompatibility, and process troubleshooting.

### Technical Consulting

Independent interpretation, analytical strategy, corrective action support, supplier review, and decision-ready reporting.

## Analytical capabilities supported

FTIR • SEM/EDS • DSC • TGA • DMA • Py-GC/MS • XRF • Optical Microscopy

**Problem-led method:** the right technique for the right question.

## Industries served

Industrial manufacturing, consumer products, electronics, medical devices, transportation, and specialty chemicals. Includes plastics, rubber, composites, adhesives, encapsulation, elastomers, contamination, verification, and supplier changes.

## Why ClearRoot Materials

### Independent judgment

Asset-light consulting model; testing is selected around the technical question.

### Ph.D.-level interpretation

Scientific depth across polymers, elastomers, adhesives, coatings, and engineered materials.

### Actionable recommendations

Findings are translated into practical recommendations for engineering, quality, procurement, and leadership teams.

## Ready to discuss your project?

Contact Matthew Bucchino, Ph.D., Founder & Principal Materials Consultant, to review a material failure, contamination issue, material identification question, supplier qualification need, or other technical challenge.

### CONTACT

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