

MATERIALS CAUSING PROBLEMS?

Is an adhesive failing? A coating blistering? Molded plastic cracking? Want to understand the makeup of a supplier's material to secure your supply chain? Need to compare the quality of two suppliers?

We can help. We listen carefully to fully understand your process and manufacturing constraints then perform characterization from simple mechanical testing to complex investigative projects. Our team translates the results of testing into actionable changes to improve your product's **performance**, **reliability**, and **profitability**.



MATERIALS ANALYSIS

Thermoplastic and Composite
Properties Analysis

Supplier Evaluation/Comparison

Root Cause Analysis

Compositional Analysis (elemental,
chemical, formulations)

Contaminant Identification

Base Materials Identification

Deformulation/Reverse Engineering

Mechanical Testing

Adhesives Testing

Optical/Electron Microscopy/
Surface Mapping

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TETRAMER ANALYTICAL

PLACE: In Anderson County near Clemson, SC, Tetramer has more than 7000 ft² of laboratory space furnished with 20 chemical hoods, fully-equipped reactors, a Class 1000 clean room, environmental test chambers, as well as access to nearby Clemson University facilities.

PEOPLE: Onsite analytical laboratory includes an in-house support network of PhD and MS Analytical and Organic Chemists and Material Scientists. Our team's larger expertise in **Materials R&D and Process Research** provides a unique capability for analysis of materials throughout the value chain.

PROCESS: Our analytical laboratory is staffed by full-time analytical chemists. Our depth of instrumentation and expertise results in **quick turn-around times** and **rapid feedback** on time-sensitive projects.

CUSTOMER FEEDBACK

"I have to say you [Tetramer] are more responsive than any other "lab"/research organization that I have dealt with; that is highly appreciated."

Senior Materials Engineer | Tier 1 DOD Supplier

"There are many companies that have technical test capabilities and expensive machines but can't follow through to help educate a customer through a transparent exchange of ideas. I think this really sets your team apart from other companies we've worked with. I've found the recent project interesting, engaging, and quite honestly, a fun learning experience."

John Earl | Director of Engineering | Techtronic Industries



CUSTOM MATERIALS DEVELOPMENT

From Molecule to Manufacturing

In addition to Analytical Services, Tetramer is an advanced materials company with extensive experience in the development of new materials. Our team of Molecular Architects™ provides custom materials development to industrial customers, those in the defense and energy sectors, and new ventures.

With **research**, **development**, and **manufacturing** capabilities in house, Tetramer serves as both a research partner and a supplier of proprietary custom materials.

