

Capabilities

Our experienced team of polymer science experts provide clients with proven methods to increase business performance and competitive advantage.



Opportunity Identification

- Idea Generation
- Voice of the Customer
- Quality Function Deployment
- Problem-Based Idea Generation
- Idea Bank Management
- Screening Tools
- Prioritization Tools
- Market Assessment Tools
- Preliminary business case

New Product Development

- Project Planning
- Project Management
- Design for Six Sigma; training and implementation
- Phase/Gate NPD process
- Fast Track NPD process
- Technology and Product Platform Development
- Pipeline Management
- Portfolio Management
- Manufacturing Process Development

Process Optimization

- Six Sigma Tools
 - Process Mapping
 - Cause/Effect Matrix
 - Failure Modes and Effects Analysis (FMEA)
 - Multivari Analysis
 - Design of Experiments
 - Factorial
 - Fractional Factorial
 - Mixture Designs
- Advanced Statistical Analysis and Modeling
- Lean Manufacturing Tools

Intellectual Property

- Patents and Trademarks
- Patent Strategy Development
 - Barriers to entry
 - Licensing agreement
- Prior Art Searches
- Invention Disclosures

Thermosetting Polymers Expertise

- Characterization
- Cure Kinetics
- Chemorheology and Processing
- Impregnation and B-staging
- Laminating
- Formulations (epoxy, phenolic, polyimide, cyanates, polyesters)

Polymer Characterization Expertise

- Thermal Analysis
 - DSC
 - TGA
 - TMA
 - DMA
- Rheological Measurements
- Dielectric Spectroscopy
- Adhesion Measurements
- Structure-Property-Process Relationships
- Underwriters Laboratory (UL) testing
- Reliability testing

Expert Witness Testimony

- Case research
- Preparation of Expert Opinion
- Deposition and Court Testimony