

Polymer Film-Based Services: Product Development, Manufacturing Support and Failure Analysis

The Polymer Laboratory at Stress Engineering Services, Inc. delivers a comprehensive range of engineering and testing services specifically focused on polymeric materials.

Whether it is the development of a new polymer formulation to achieve specific product objectives, characterizing/evaluating existing polymer structures for a new application, or testing to determine the life-limiting degradation mechanisms via accelerated aging techniques, Stress Engineering can support your application.



Dedicated Polymer Laboratory at Stress Engineering

Our team is equipped with the experience and technologies to provide expert engineering design, analysis, testing, and custom R&D to support our clients at all stages of their unique product and process lifecycle.

One area of deep expertise is polymer films. Our portfolio of industry experience includes:

- Health, hygiene, and medical films
- Packaging and thermoformable films
- Display and graphic films
- Films for electronics and electrical applications
- Films for adhesive tapes and liners

Resin Selection for Film Applications - Resin selection for extruded films, monolayer or multilayer, is a core expertise. We support new product development and cost savings efforts.

Film-Based Product Design - Film design is based on the material selection and the process used to manufacture film-based products. Our team translates your application and specific needs into key performance requirements. We anticipate plausible failure modes and translate them into robust product specifications.

Cast and Blown Film Extrusion - Our experience with development and troubleshooting of monolayer and multilayer cast films and blown film processes includes extrusion processes (both single and direct twin screw), die and feed-block selection, web handling, in-line converting, and roll winding.

Film and Laminate Characterization - We provide standard and customized test methods to evaluate film materials, processes, and final product.

Technical Publications

[Polymer Film-Based Product Development, Manufacturing Support and Failure Analysis Services](#)

[Polymer Testing & Engineering Services](#)

Upcoming Events

BIOMEDevice

May 15-16, 2019 | Boston, MA

Booth #560



Inhalation Drug Delivery

In Silico Methods - Computational Modeling and Simulations for Combination Product Development

Technical Presentation by Anup Paul, Ph.D., P.E., Senior Associate with SES

May 28, 2019, 3:20 PM | Boston, MA

Missed our latest newsletter?

Click [here](#) to read about how the real **critical path** for any project goes through finding and solving problems.

Stress Engineering Services Inc. provides expert engineering consulting services for:

- **New Product Development**
- **Material Science & Engineering (Full Polymer & Metallurgical Labs)**
- **Systems Engineering**
- **Risk Assessment**
- **Human Factors**
- **Sustaining Engineering**
- **Failure Analysis**
- **Package Development**
- **Verification Testing**
- **Equipment Validation & Development**

Our services help clients achieve not only technical success in avoidance or remediation of failures, but also commercial success in removing costs, risk and time from their process and product designs.

PHARMACEUTICAL | SURGICAL DEVICES | DRUG DELIVERY | MEDICAL EQUIPMENT
OCULAR | IMPLANTS | DENTAL | DIAGNOSTIC DEVICES | ENT | VETERINARY | VASCULAR

To learn more about Stress Engineering Services Inc., visit our [website](#) or contact us at 513-336-6701.

ISO 13485:2016 & ISO 9001:2015 Certified
ISO 17025:2005 Accredited for Several Test Methods
ISTA Certified Testing Laboratory Member

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