

**LIMITED  
SERIES BY  
MIKE SEPE**

**MATERIAL SELECTION  
&  
FAILURE ANALYSIS**



American Injection  
Molding Institute

by  **Beaumont**

[WWW.AIM.INSTITUTE](http://WWW.AIM.INSTITUTE)

# PLASTIC PART FAILURE ANALYSIS & PREVENTION

## Cost:

\$1,950

Attendees will learn the relationship between the 5 factors that determine whether a plastic product is successful or a failure. The course emphasizes prevention of failures with real-world examples & studies.

## COURSE OVERVIEW

- Analysis of the relationship between part design, mold design, material selection, processing, and product testing & validation, and how these factors determine whether or not a part is successful.
- Real-world examples and studies of part failures.
- The economics of effective corrective action in the case of a product failure.
- Review of the tools of failure analysis, including testing methods that can rapidly and definitively determine the root cause of a failure.

# PLASTIC MATERIAL SELECTION AND TESTING

## Cost:

\$1,950

This course focuses on the importance of defining a part's application when selecting the appropriate plastic material, and dives into test methods designed to evaluate long-term part performance.

Materials are treated in terms of their structure and chemistry to illustrate the connection to functional performance.

This course will review considerations for selecting appropriate materials for your application, including the design of the part, the expected functions of the part in the field, and processing conditions, as well as methods for accurately evaluating plastic material properties.

