

Characterization of Plastics in Failure Analysis

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THE ULTIMATE OBJECTIVE of a failure analysis is to ascertain the mode and the cause of the failure, regardless of the material from which the part was fabricated. The investigation is performed in generally the same manner, whether the failed component was produced from metal or plastic or a combination of these materials. Thus, the same typical steps are required to conduct a comprehensive failure investigation, and these are outlined in Fig. 1. Conceptually, the failure analysis process is analogous to putting together a jigsaw puzzle. A failure analysis requires assembling bits of information into a coherent and accurate portrayal of how and why the part failed. Reaching the objectives of the plastic failure analysis—namely, the determination of the mode and cause of the failure or, expressed alternatively, evaluating how the part failed and why it failed—requires a scientific approach and broad background knowledge of polymeric materials.

Failure within plastic components can occur in several different ways, including aesthetic alteration, deformation/distortion, degradation, wear, and fracture. In the case of failure involving fracture, there are a number of common plastic failure mechanisms, such as ductile overload, impact, creep rupture, environmental stress cracking, and fatigue. The determination of the fracture failure mode involves identifying the crack-initiation mechanism and the propagation mode. This is usually ascertained using visual-based techniques such as stereomicroscopy, scanning electron microscopy, and the preparation of mounted cross sections. Assessing the mode of the failure is often not as difficult as establishing why the part failed. Evaluating why the part failed, regardless of the type of failure, usually requires analytical testing beyond the visual-based techniques. In many cases, a single cause cannot be identified because multiple integrated factors may have contributed to the failure. All the factors that affect the performance of a plastic component can be classified into one of four categories: material, design, processing/manufacturing, and service conditions/environment (Ref 1). These factors do not act independently on the

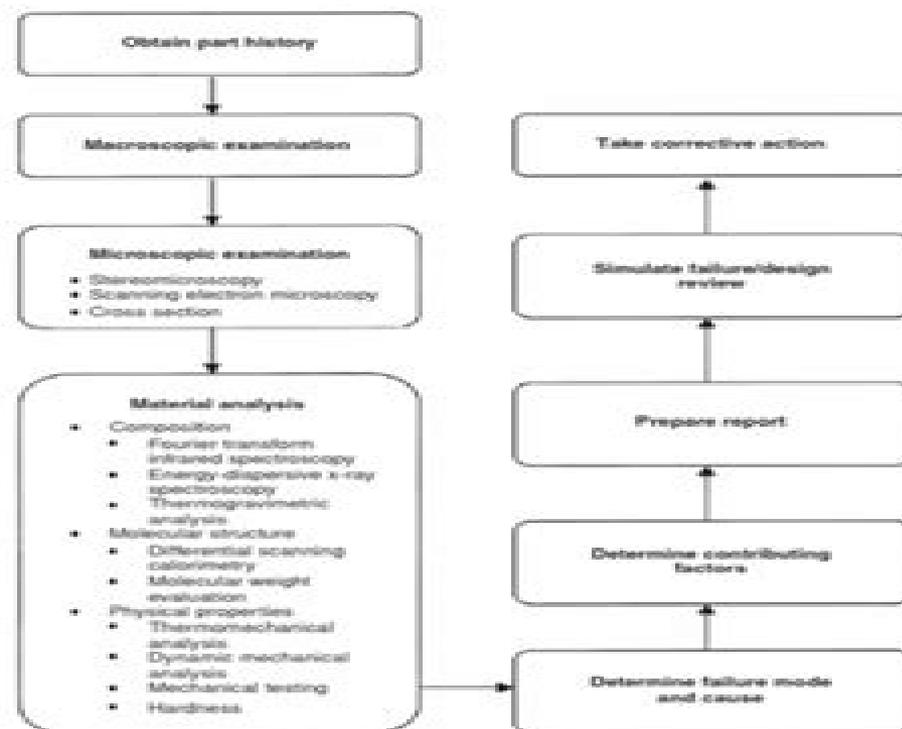


Fig. 1 Steps for performing failure analysis. The steps are the same regardless of the material.

component but instead act in concert to determine the performance properties of a plastic component. This is represented graphically in Fig. 2 (Ref 1).

The principal differences between how failure analysis is performed on metal and plastic materials center primarily on the techniques used to evaluate the composition and structure

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Table of Contents Characterization And Failure Analysis Of Plastics

1. Understanding the eBook Characterization And Failure Analysis Of Plastics
 - The Rise of Digital Reading Characterization And Failure Analysis Of Plastics
 - Advantages of eBooks Over Traditional Books
2. Identifying Characterization And Failure Analysis Of Plastics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Characterization And Failure Analysis Of Plastics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Characterization And Failure Analysis Of Plastics
 - Personalized Recommendations
 - Characterization And Failure Analysis Of Plastics User Reviews and Ratings
 - Characterization And Failure Analysis Of Plastics and Bestseller Lists
5. Accessing Characterization And Failure Analysis Of Plastics Free and Paid eBooks
 - Characterization And Failure Analysis Of Plastics Public Domain eBooks
 - Characterization And Failure Analysis Of Plastics eBook Subscription Services
 - Characterization And Failure Analysis Of Plastics Budget-Friendly Options
6. Navigating Characterization And Failure Analysis Of Plastics eBook Formats
 - ePub, PDF, MOBI, and More
 - Characterization And Failure Analysis Of Plastics Compatibility with Devices
 - Characterization And Failure Analysis Of Plastics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Characterization And Failure Analysis Of Plastics
 - Highlighting and Note-Taking Characterization And Failure Analysis Of Plastics
 - Interactive Elements Characterization And Failure Analysis Of Plastics
8. Staying Engaged with Characterization And Failure Analysis Of Plastics

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Characterization And Failure Analysis Of Plastics
9. Balancing eBooks and Physical Books Characterization And Failure Analysis Of Plastics
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Characterization And Failure Analysis Of Plastics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Characterization And Failure Analysis Of Plastics
- Setting Reading Goals Characterization And Failure Analysis Of Plastics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Characterization And Failure Analysis Of Plastics
- Fact-Checking eBook Content of Characterization And Failure Analysis Of Plastics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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