

Thermal Stability of Laser-Irradiated Polymers and Composites Through-Rate Technologies as a Function of Materials and Processing

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Abstract

Thermally stable polymer (TSP) technologies are being developed to increase the thermal stability of polymers and composites under operating, storage, and shipping conditions. Through-rate thermal cure is a developing process capable for the technology. TSP and thermally stable composites support the design flexibility for the technology. Operating under high temperatures and radiation environments is a challenge for the technology, and the through-rate technology is being developed.

The research paper will focus on the thermal stability of polymers and composites in the context of the materials and processes involved in the process. The stability of the materials is measured using several different techniques including thermal analysis, thermal analysis, and thermal analysis.

Introduction

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Thermal Stability

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Thermal Stability of Polymers and Composites

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