

Mechanical Characterization in Printing and Fabrication of Materials from Nano-Micro Scale

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Abstract

Nanomechanical testing techniques are a valuable tool; assisting both researchers and industry in better understanding of mechanical properties of printing materials at both nano and micro scale. This presentation will examine testing technologies and techniques that can be used to better understand adhesion of toner particles and the frictional effects of the toner particles to the substrate. Results of dynamic testing will also be presented to show how temperature/frequency dependence and changes in modulus can assist in material development to improve print quality and resolution.