

Suitability of Gravure Printing for High Volume Fabrication of Electronics

*Erika Hrehorova, Marian Rebros, Alexandra Pekarovicova and Paul D. Fleming,
Department of Paper Engineering, Chemical Engineering and Imaging, Western Michigan University, Kalamazoo, MI*

Abstract

This paper considers gravure printing and its suitability for application in electronics fabrication. Current applications of gravure in printed electronics are reviewed. Various aspects of gravure printing are discussed, such as preparation of gravure cylinders, engraving quality and the effect of engraving parameters on print quality. It is shown that engraving resolution and depth of engraved cells have an impact on the quality of printed layers. Gravure printing of fine features required for printed electronic devices is also evaluated.