

DropFoil™ – Solution for high dimensional accurate structures with inkjet printing

A key aspect in printing electronic structures is the creating of a printing data for inkjet printing system. A high resolution addressing is desirable, because it increases the dimensional and locational accuracy and allows more accurate structures to be printed. Dimensionally accurate structures are critical for performance of the electronics. However, the increase in printing resolution also increases the amount of pixels on area and since one pixel represents a drop of material it will lead to increase of material in a specific location. Printing all of them in one pass is usually undesirable, because it would result in a layer that will flood or bulge and does not create even thickness (Figure 1). DropFoil™ is a solution that will create dimensionally accurate structures on right places without flooding or bulging and has thickness control for printed foils. Solution has been piloted and used with [DropBonder™](#) to create dimensionally accurate structures.



Figure 1. Left: A printing result with low resolution. Middle: A printing result in medium resolution with bulging phenomenon. Right: Result with high resolution DropFoil™.