Building the Better Dot for Corrugated

MacDermid Digital MAF







- In 2010, MacDermid introduced LUX Technology, an award winning flattop dot solution that shifted the flexo paradigm, elevating the quality of flexo.
- In the corrugated market, one of the prime advantages of this process was the ability to reduce fluting.



The LUX Process Reduces Fluting



20% 85 lpi print



What causes fluting?







- MacDermid later leveraged its expertise in flat-top dots to develop LUX In-the-Plate (ITP), an out-of-thebox flat-top dot solution that required no extra steps or equipment for the manufacture of thin flexo plates used primarily in the flexible packaging markets.
- In 2015, MacDermid takes its expertise in dot engineering even further to develop a plate with dots that are specifically optimized for corrugated.



The Best Performing Digital Corrugated Plate Available

Key Features

- Lowest possible fluting with a digital plate
- Reduced dot gain
- Faster press speeds
- Holds the finest detail in all plate thicknesses
- No cupping allows for uniform impression at all process speeds
- Chip resistant, tack free and extremely durable

Digital MAF Photopolymer Printing Plates	
	.030
Frinting Solutions Universide Completions	



- What is it?
 - Conventional digital photopolymer printing plate
- What isn't it?
 - LUX flat top dot technology
- What is needed to use it?
 - A digital imager
 - A bump
- What is not needed to use it?
 - Laminator, Inert Gas Exposure, High Intensity UV Exposure





Competitive Flat-Top Dot Technology

Digital MAF



What Does Digital MAF Do For You?





What Does Digital MAF Do For You?







How Digital MAF reduces fluting









Plate to Print 85 lpi





Fluting Factor 30% at 85 lpi





How is a Fluting Factor calculated?



Side view of a corrugated board



What is a Fluting Factor?





Fluting Factor







Digital MGC vs Digital MGC LUX







Digital MGC vs Digital MAF







Digital MGC LUX vs Digital MAF







Competitive flat top dots vs Digital MAF



Exposed in an inert gas

Conventionally exposed in air



Digital MAF exposed in an inert gas



3% 85 lpi





50% 85 lpi



Conventionally exposed in air

Exposed in an inert gas



66

Previously, we had battled fluting in our print and made many on-press adjustments to try to diminish the flute striping. With MacDermid's Digital MAF, we just put the plates on press and ran with them. The fluting is almost non-existent now.

-Pressroom Manager, Large U.S.-based Corrugated Printer



Building the Better Dot



Digital MAF - Out of the box digital plate technology that yields the lowest fluting on press and provides excellent print results for corrugated printers, *without* the need for additional steps or processes.



Thank you

Daniel J. Fry Global Business Director dfry@MacDermid.com

