# It's Here.... The end of the Cellular Foam Era

The evolution of mounting starts now!



Fortifying the Flexographic process's weakest link

Controlled Displacement™ echnologies LLC

# CHANNALBAC 2.0

#### Now with a totally new adhesive system

The new release liner is 142 gauge differential PET film (previously paper).
Now available in two new plate side adhesive options\* "blue" & "pink".
400 gauge PET provides the foundation and structural integrity for the ChannalBAC™ ribs.
Significantly improved rib side adhesion made possible with a new specially formulated acrylic adhesive and a NEW patented adhesive coating system specifically designed to maximize adhesive to just the tip of the displacement rib.
\*Adhesive Options
ChannalBAC™ is created with a differential adhesive system that combines a

- ChannalBAC<sup>TM</sup> is created with a differential adhesive system that combines a high level of adhesion to the cylinder/sleeve with extremely low initial tack on the plate side, which allows for easy repositioning during mounting.
- ChannalBAC<sup>™</sup> is available with 2 plate side adhesives; "blue" or "pink":
   "blue" has very low initial tack for optimum plate repositioning.

"**pink**" has higher tack (especially useful when mounting large plates using manual plate mounting equipment). Both adhesives are designed for use with photopolymer plates and provide excellent holding power on-press without plate edge lift. Plates remove cleanly and easily resulting in less plate damage during demounting.

 The new ribbed side adhesive of ChannalBAC<sup>™</sup> is designed with a high level of bond from the cushion to the surface of the printing cylinder/sleeve providing easy application and repositioning during mounting. When it is time to remove the tape from the surface, the adhesive system (in combination with the low surface area of the ribs) allows for extremely easy and clean removal.

## **CHANNALBAC**<sup>™</sup> is the only "Displacement Cushion™" in the industry!

Until now, the flexographic printing industry has had to rely only on cellular foam cushions to provide optimized pressure to transfer the image from the plate surface to the substrate. To achieve optimum transfer, most suppliers of cellular foam offer a variety of different densities (firmness) to be selected based on the image elements of a particular design. Often, this requires the pre-press department to mix cellular tape densities on a color by color basis of a particular job. This can be a difficult discretionary task if it is the first time printing a particular design and can often result in less than optimum fidelity of some elements on a given color.

"Displacement Cushioning" is a vastly more efficient means of providing the optimum pressure to transfer the image from the plates surface to the substrate. ChannalBAC's unique patented construction creates the required pressure for optimum image transfer while offering "shock absorbing" properties not found in cellular based tapes. This allows one product to provide the optimum cushion needed to transfer across a broad range of image and design elements.

Additionally, "Controlled Displacement Cushioning" reduces or eliminates bounce on over 80% of bounce prone designs, often at increased press speeds.

ChannalBAC's unique design provides both "optimum cushioning and optimum shock absorbing" without the need to inventory multiple density cellular tapes. This provides increased efficiency while eliminating a MAJOR variable and enabling optimum quality, print fidelity, and sustainable results across all your printed production.

CHANNALBAC 2.0

#### Optimum, Sustainable, Consistent Print Results You Can Rely On!

As an experienced Flexographic Print professional, you know a change in cellular tape density can drastically alter print quality. You also know that cellular foam can be damaged during press set-up and on long runs you need to monitor and increase plate to substrate pressure as the walls of the encapsulated air pockets rupture. So, when comparing ChannalBAC to your award winning print results printed with your current tape, what can you expect to see? NO change in most cases. And that's the "brilliance" of ChannalBAC's performance! It's a "drop-in" replacement for your current optimum cellular tape whether you're comparing ChannaBAC to soft, medium or firm density. ChannalBAC replicates ALL densities simply by changing impression.

Change dot gain (without slur), and increase solid ink transfer "simply by changing impression"



#### ...and ChannalBAC<sup>™</sup> is Guaranteed "crushproof"



The images to the left are from a 4/c process job. The magenta plate was mounted on ChannalBAC. (See image @100,000 LF) At 720,000 LF, the magenta dot, from over impression has slurred so significantly it no longer resembled a dot". The job was able to finish a 1,200,000 LF run with the dot shape restored simply by reducing impression. Neither the plate nor the ChannalBAC was destroyed.

Unlike cellular foam, ChannalBAC's design is based on "Path of Least Resistance." As plate pressure is increased the ChannalBAC rib absorbs the pressure by displacing the elastomeric rib in the cross web direction. However, when the maximum pressure is applied to the rib the excessive impression follows the "Path of Least Resistance" theory resulting in dot slur. With *extreme* over impression the ChannalBAC rib pattern will show through in the print.

# Controlled Displacement™ Technology



### Fortifying the Flexographic process's weakest link

- Provides Constant Impression Through Your Longest Runs
- One Inventoried Mounting Material For All Jobs
- Promotes Increased Press Speed
- Increases Plate Life
- Reduces Downtime for Cleaning Plates
- Reduces Appearance of Dots with Donuts or Haloed Type
- Reduces Pinholes In Large Solids
- Reduces or Eliminates Press Bounce, Banding, and Gear Marks

.... No new press characterization required!

Controlled Displacement™ lechnologies LLC

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