

# DRYFILM User Guide

**DRYFILM** is a special coated film designed for use with digital imagers, its surface has the properties of both Matte and Gloss options, all depend on the applications as well as post-handling of the film.

## IMPORTANT!!!

It's recommended to maintain the matte surface of the **DRYFILM** by using only water in addition of lint free cloth to wipe the plate if needed. The use of Alcohol/FilmKleaner/IPA/Ethanol will remove the matte surface permanently.

Why Matte Surface? Certain plate making process such as Flexographic Platemaking requires intimate contact between the film and photopolymer surface for ensuring quality vacuum drawing, the matte surface of **DRYFILM** will help to achieve such objective easily.

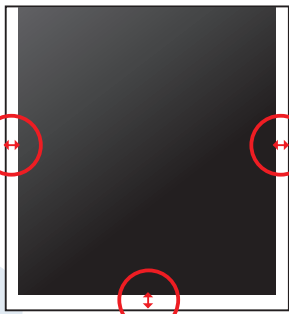


Figure 1

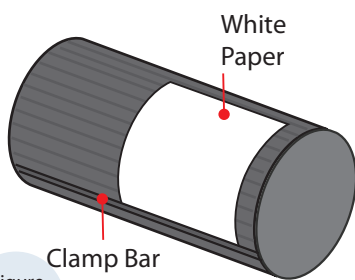


Figure 2

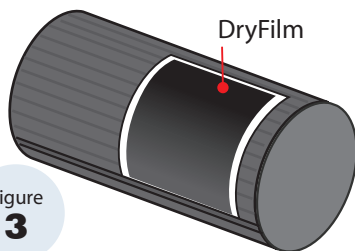


Figure 3

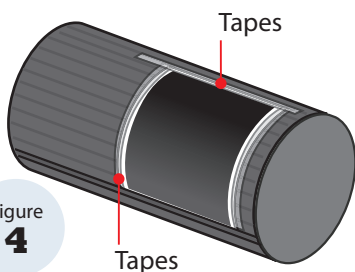


Figure 4

### Step 1

Cut out the size of the **DRYFILM** you intend to use. Prior to the imaging of **DRYFILM**, we recommend the use of gloves for handling of the material due to grease on the fingers may transfer to the surface ends up additional cleaning and undesired effect.

### Step 2

During the imaging process, scatted reflection of the laser light source may cause undesired result such as Moire Pattern. Therefore, we recommend the use of a white paper which is slightly larger than the size of **DRYFILM**, 5-10mm (Figure 1) to be placed underneath the material wrapping the drum surface (Figure 2 & 3).

### Step 3

Unless the size of the **DRYFILM** is fully wrapped around the circumference of the drum surface, else, the use of tape to cover the edge of the drum is needed, just as the imaging of partial flexographic printing plate. (Figure 4) Failing to do so may led to possible damages on the **DRYFILM** and hardware.

### Step 4

With the use of Esko Grapholas "Merger", you'll need to change imaging parameter under the tab "Type" to "Film" as this will change the thickness of the material type as well as the laser power.

We recommend to use the laser power of "3.5mW/cm<sup>2</sup>" as a start, and you may increase or reduce the settings based on the result; the thickness of the film should be set at "0.20mm" to "0.28mm" depending the type of material used underneath.

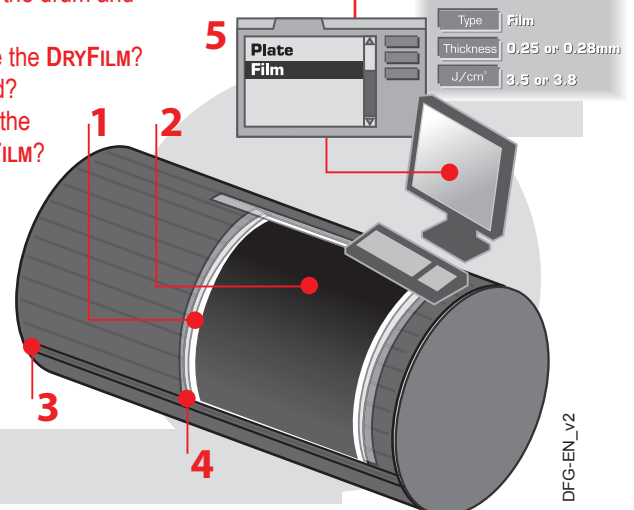
### Step 5

Depending on your application, it is recommended using water in addition of lint free cloth to wipe the **DRYFILM** if needed to maintain the matte surface. The use of Alcohol/FilmKleaner/IPA/Ethanol will remove the matte surface permanently.

### Check Points:

1. Are the tapes securely attached to the drum and **DRYFILM** edges?
2. Any air bubbles detected beneath the **DRYFILM**?
3. Is the Clamp Bar securely fastened?
4. Are the tapes securely attached to the trailing edge of the drum and **DRYFILM**?
5. Have you checked the settings on the "Type" within the "Merger" of Esko's "Grapholas" software; is the "Film" option selected? Ensure the "Film" thickness and laser power as below:  
**Thickness:** 0.25 - 0.28mm  
**Laser Power:** 3.5 - 3.8J/cm<sup>2</sup>

Higher laser intensirt may be required for digital imager with 4,000dpi.



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