

# Flexocure Ebony™



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- Black is the most critical shade as all printers want excellent density with high curing speed
- That, hard to obtain with traditional black inks, is now a step ahead with Flexocure Ebony™.



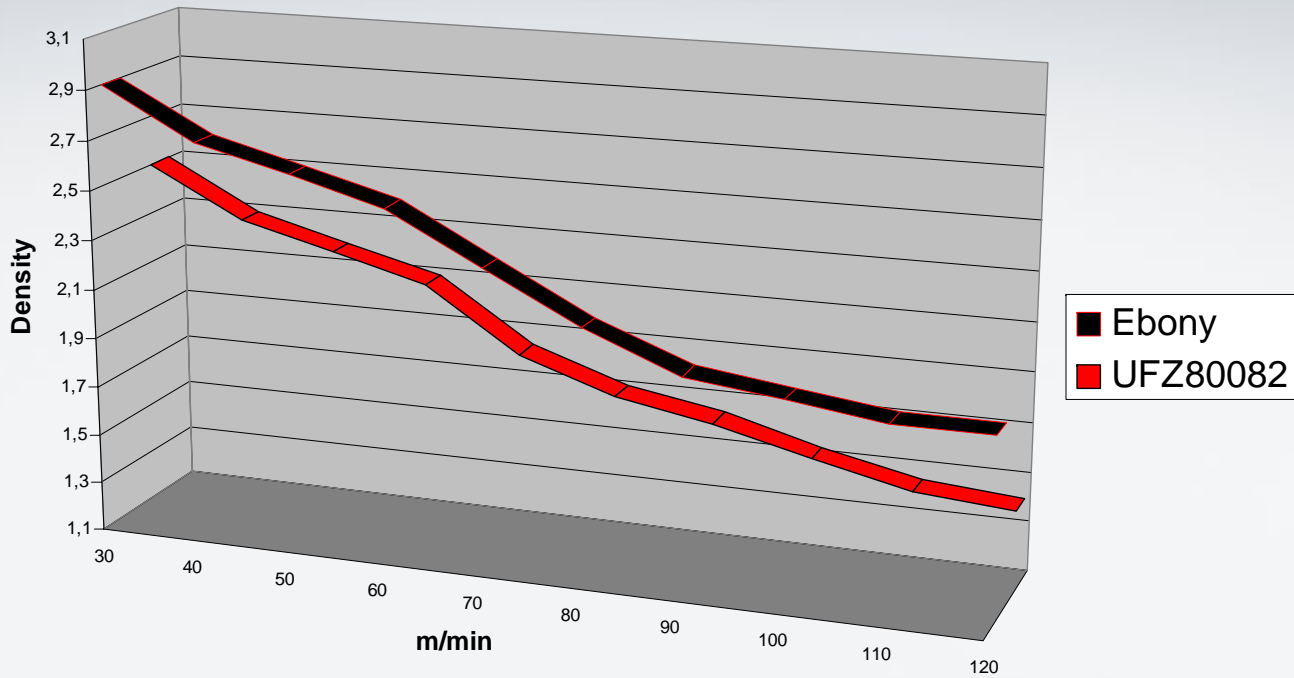
# Flexocure Ebony™

Excellent Density combined with Best cure rate & Adhesion creates opportunities

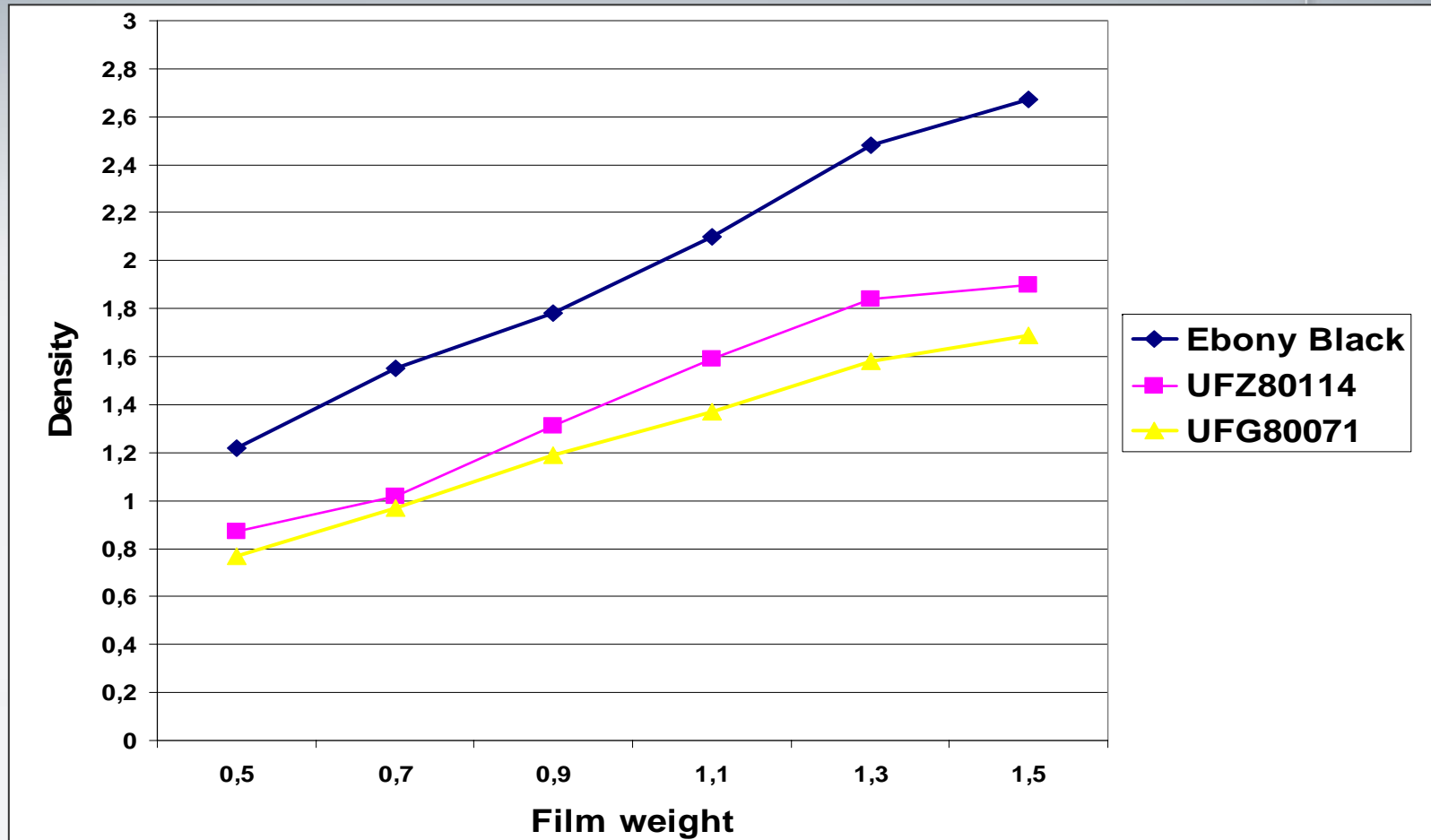
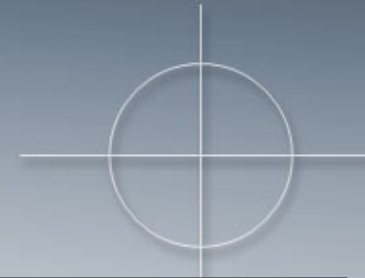
- Flexocure Ebony™ has the highest possible density at low film thickness (density of 1,6 at film weight 0,7 g/m<sup>2</sup>). Flexocure Ebony™ can be used with Low to Medium volume aniloxes at high speeds.
- Flexocure Ebony™ has the highest possible cure speed at high densities (press speed of 120 m/min at density 1,85 is possible)
- Flexocure Ebony™ has excellent adhesion properties also at high densities (press speed of +60 m/min at density 2,3 is possible)



# Flexocure Ebony Cure Speed



# Flexocure Ebony Density vs. Film weight



# UV flexo for label applications



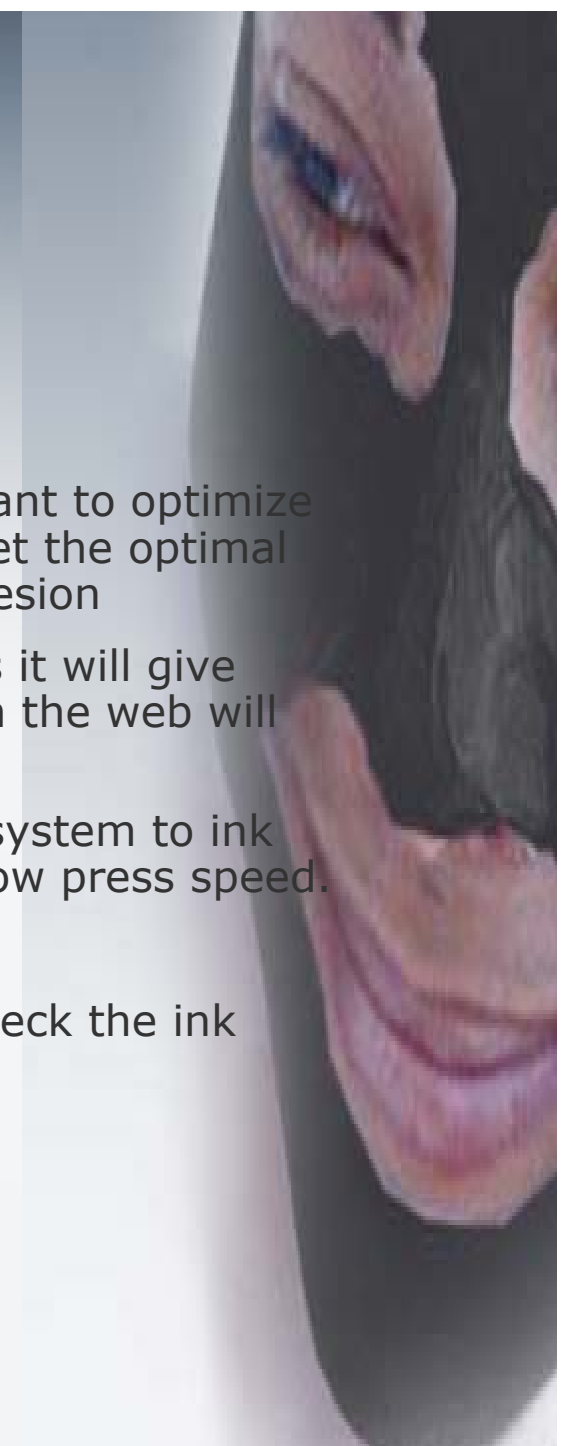
	Flexocure Gemini	Flexocure $\Sigma$	Flexocure XS	Flexocure Ivory	Flexocure Ebony
PS Paper Labels	• • •	• • •	•	•	• • •
PS Thermal Labels	• •	• • •	—	—	—
PS Film Labels	• • •	• • •	• •	• • •	• • •
Unsupported film labels	• • •	• •	• •	• •	• •
Shrink sleeves	•	•	• • •	—	•
Flexible packaging	• • •	—	—	•	•
• • • Highly recommended • Can be used - Not recommended					



# UV flexo

## PS Paper

- To get optimal adhesion and printability
  - Follow recommendations from substrate supplier
  - As flexo is a “kiss” printing process is it very important to optimize the combination of anilox roller, plate and tape to get the optimal laydown which will enhance the printability and adhesion
  - UV flexo printing process is very sensitive to dust as it will give hickies in the print. Usage of web cleaning device on the web will help this.
  - The hold out can vary from paper to paper and ink system to ink system. Worst case is with low film weight at very low press speed.
  - Optimal condition for humidity is 40-60%
  - Bad adhesion can often be caused by bad curing, check the ink curing!



# UV flexo

## PS Film

- To get optimal adhesion
  - Follow recommendations from substrate supplier
  - Surface tension needs to be above 38 dyne/cm
  - Use corona treatment if needed
  - If top coated substrates are corona treated water resistance can be reduced
  - As flexo is a "kiss" printing process is it very important to optimize the combination of anilox roller, plate and tape to get the optimal lay down which will enhance the adhesion
  - Optimal condition for humidity is 40-60%
  - Bad adhesion can often be caused by bad curing, check the ink curing!
  - The adhesion can be improved by adding adhesion promoter to the ink





# Flexocure Gemini

## Adhesion



- To get optimal adhesion
  - Follow recommendations from substrate supplier
  - Surface tension need to be above 38 dyne/cm
  - Use corona treatment if needed
  - Optimal conditions for humidity is 40-60%
  - Bad adhesion can often be caused by bad curing, check the curing of the ink!

Material	Result
Cast coated paper	• • •
Machine coat paper	• • •
PE	• • •
PE TC	• • •
PP	• •
PP TC	• • •
PVC	• •
PET	• • •
BOPP	• •

• • • Highly recommended • Limited use  
- Not recommended

