How to determine the level of Ink Foaming

ByTechnology Coaching

Introduction

- There are many reasons why ink foams;
- To investigate we need a method for measuring;
- The proposed method is to monitor the ink density:
  - When ink starts to foam the ink density will drop.

Equipment

- Pipette:
- 50ml Tip (5 Peaces):
- Adaptor for 50ml tip:
- Scale 65 g accuracy 0.01 g

Procedure Measuring Density

1. Switch on scale;
2. Place plastic cup on scale;
3. Zero Scale;
4. Place the 50 ml tip on the pipette;
5. Set the dispense volume dial on 10. The display will indicate “10 ml”
6. Fill the pipette, the display will flash “10 ml”;
7. Operate the pipette once by putting the liquid back in the original container the display will stop flashing;
8. Dispense 50 ml liquid in plastic cup on scale by operating the pipette 5 times;
9. Take reading from scale;
10. Dived reading by 50 to get the density in kg/dm^3.

Measuring Ink Foaming

1. Measure the ink density before inking-up ink system;
2. Measure the ink density after 5 min circulating in the ink metering system;
3. Repeat measuring every 15 minutes;
4. Record data in excel spreadsheet;
5. The change in density is an indication for the amount of air in the ink and thus the level of ink foam.

Thank you for your attention

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