Activity 1: Create a plate curve to linearize a plate

Background

Contents

You can create a plate calibration curve to linearize plates for quality process control.

Tasks

Goal

Create a plate calibration curve and enter 53 for the measured Dot Area to represent a 3% gain.

Task 1: Create a new plate calibration curve in ColorFlow

- 1. In ColorFlow, click the **Plate Curves** tab.
- In the Plate Calibration Curves section, click the Add button +.
- 3. In the **New Plate Curve** dialog box, enter the following:
 - a. In the **Device Type** box, select **Offset Press - Sheetfed**.
 - b. In the **Plate Type** box, select Kodak Thermal Gold or add the value to the list if it doesn't exist:
 - i. Click the **Edit** button
 - ii. Click the **Add** button +
 - iii. .Enter Kodak Thermal Gold.
 - c. In the **Screening** box, select 150 lpi AM or add the value to the list if it doesn't exist.
 - d. In the **Plate Line** box, select Trendsetter or add the value to the list if it doesn't exist.
- 4. Click **OK**.
- 5. In the **Data** panel on the right, name your plate curve by entering XX new plate curve (where xx=your initials) in the **Plate Curve Name** box.
- 6. In the Measured Plate Response section, enter the measured Dot Area values for each Tint In value. In a real life situation, you would output an uncalibrated plate in Prinergy and measure it using a measurement device. For the purpose of this training, enter the following value:

Tint in	Dot Area
50	53

7. Click **Apply**.

A plate curve with a linear response is generated.

8. You can view the plate curve by clicking on the **Plate Curve...** button

9. Select the **Show curve in Prinergy** check box beside the Plate Curve name in the Plate Curves section on the upper-left side.

Task 2: View the plate curves in Prinergy

- 1. In Prinergy, click Tools > Process Template Editor > Loose Page Output > Virtual Proof.
- 2. Click Virtual Proof.LoosePage.
- 3. In the Loose Page Output dialog box, expand the Calibration & Screening panel.
- 4. Click the **ColorFlow Current State** radio button.
- 5. Expand the **Plate Curve** drop down list, you should see the plate curve you just created.

Task 3: Output a page using the plate curve in Prinergy

- In Prinergy, create a new job, and name it as XX Plate Curve (where XX = your initials).
- 2. Refine Chart_TintRamp_CMYK.pdf with 1stRef-Normz.
- **3.** Output the PDF file using Virtual Proof.LoosePage with one of the plate curves you just created:
 - a. In your Virtual Proof.LoosePage Process template dialog box, from the Output To list, select Virtual Proof.
 - **b.** Leave **ColorFlow Color Relationship Management** unchecked.
 - c. Expand the Calibration & Screening panel.
 - d. Click the ColorFlow Current State radio button.
 - e. Expand the Plate Curve drop down list and select curve XX new plate curve.
- **4.** Open the generated page in VPS and measure the 50% black patch.

Confirm that the plate curve has been applied and the 50% black patch measures 47%.

Outcome

You have created a new plate calibration curve and used it in Prinergy to control the tonal response of a plate.

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