Activity 1: Use a plate curve to linearize a plate

Contents

Background

You can create a plate calibration curve to linearize the 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.
2. 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**.
   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. Select the **Show curve in Prinergy** check box.

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

1. 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.