

Activity 3: Use a transfer curve to control Flexographic print response

Background

Contents

The flexographic printing technology uses a flexible relief plate to transfer inks from a cylinder to a substrate. The flexographic print response is controlled by the highlight gain and minimum printable dot. The minimum printable dot is accomplished by using *Mindot bump and cutoff curves*. This activity is to control the response of a flexographic plate by using Mindot bump curves.

Tasks

Goal

Create a print transfer curve to control the response of a Kodak Flexcel NX plate.

Task 1: Created a print transfer curve for Kodak Flexcel NX plate

1. In ColorFlow, click the **Print Curves** tab.
2. In the **Transfer Curves** section, click the **Add** button .
3. In the **Name** box, enter `XX Flexcel transfer curve` (where `xx=` your initials).
4. In the **Device Conditions** section, choose **Flexographic Press** for the **Device Type** and leave all the other settings as default and click **OK**.
5. In the viewer window on the right, click the **Transfer Curves** icon .
6. In the **Transfer Curve definition** dialog box, select the **Show in Prinergy** check box.
7. In the **Curve Origin** section, click **Flexcel NX Preset**.
8. In the **Midtone Tone Value Increase** box, enter 0.
9. In the **Mindot Bump/Cutoff > Process Inks (CMYK)** section, enter the following:
 - In the **Tint In** box, enter 0.39 (minimum system value)
 - In the **Tint Out** box, enter 2 (minimum printable dots on this type of Flexcel plate)
10. Leave the **Highlight Contrast** as the default value (70%). This value can be adjusted to give the desired adjustment slope.
11. Click **OK**.
A print transfer curve for Kodak Flexcel NX plate is generated.

Task 2: Output a page using the print transfer curve in Prinergy

1. In Prinergy, create a new job, and name it as `XX Flexcel NX plate` (where `XX =` your initials).
2. Refine [Chart_TintRamp_CMYK.pdf](#) with 1stRef-Normz.
3. Output the PDF file using Virtual Proof.LoosePage with the print transfer curve you just created:
 - a. In your **Virtual Proof.LoosePage** Process template dialog box, from the **Output To** list, choose **Virtual Proof**.

