**Color and Light Transmission**

**Colour**

1. Set up and calibrate the DigiEye following the standard SOP available.
2. Place the film samples on the white board and take a picture. You can place as many films as possible without getting a blurry picture.
3. Run this test in duplicates.
4. Take 5 measurements per film sample.
5. To demonstrate transparency, take a picture of each film formulation over the template given.

**UV transmission spectra**

1. Cut the film samples into a rectangular shape (40 mm x 10 mm) and place them in the quartz cuvette.
2. Set up the spectrophotometer and run a blank with the empty quartz cuvette.
3. Capture the transmission spectra at 200-800 nm (5 replicates).
4. Use the following equation to calculate opacity:

Where,

T = average thickness of the film (mm)