

## Effect of Surface Coating of Paper on Measuring Spectral Values

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### **Abstract:**

The printing industry has become more development than before ,as well as the challenges that related to quality and consistency of colors results ,especially with the repetition of printing operations in the packaging field.

The using of measurment devices is very important due to the many changes that occur on printing materials in general and on paper and inks in particular.

And thier were many sources of cellulose plants and other sources of paper manufacturing ,as well as the entry of recycling operations in this industry ,and also many producing companies are manufacturing paper with different technology in the world.

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All of that factors made it necessary and to use measurment devices ,especially in the production of repeated printing to ensure the stability of results and quality control in each process.

In this research we will highlight on the most important types of paper in general and especially the paper that used in this research.

And we will print models of the fourteen basic colors of the Pantone and will make measurements using the spectrophotometer to register and monitor the differences resulting from the different surface finishing of the paper coated - glossy/matt and uncoated.

As well as registered the results and values of the difference between the print samples and Pantone.

In this research ,we will highlight on the colors deviations with the different surface finishing of the paper and fixed the other factors to identify the reasons that lead to the deviation of the results with the use of the same materials and equipment and using of different types of finishing surface of paper.

**Key Words:** Coated Paper - Finishing Surface - Pantone.