

Quality of Indigneous Coated Papers And Ways to Improve it

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Abstract

Coated paper market in India is diversifying rapidly. Some of the Indigenous coated paper samples were compared for different optical, printing and surface characteristics with papers of foreign origin. Except few mills whose quality was found to be at par with foreign papers, most of other Indian mills were lacking in quality parameters like print non uniformity, print gloss and ink demand. Picking velocity of all Indigenous coated papers was higher than foreign samples which are undesirable. To improve the quality of Indigenous coated papers effect of different coating color variables were examined using Plackett- Burman statistical design. The parameters studied were pigment type, its amount, binder amount, total solids, amount of thickner. The effect of these on rheological, optical, surface and printing characteristics was studied.

Keywords: Coating, Picking velocity, Print non-uniformity, Print gloss