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Foam Inhibiting Effects of Trimellitic Anhydride Toner Synthesized by Liquid Phase Separation

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Abstract

A trimellitic anhydride (TMA) toner for use as a foam inhibitor in printing applications has been successfully synthesized by liquid phase separation which is a kind of the coacervation method. In this study, a mixture of lecithin and basic calcium petronate was employed as the charge control agent to negatively charge the TMA toner, since negative charged toners can be used in our printing system. The TMA toner showed good printing characteristics. Furthermore, foaming was successfully inhibited by controlling the print density of the TMA toner. The foam inhibiting effects provided by the TMA toner are sufficient to meet the requirements of high resolution professional printing. Our synthesis method proved useful for producing liquid toners, and liquid toners synthesized in this way should have wide range of applications in many industrial fields.

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