



# Effect of the morphology on the optical and electrical properties of polycarbonate film doped with aniline derivatives monomers

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Auteur	Stanculescu, Florin [1], Stanculescu, Anca [2], Girtan, Mihaela [3], Socol, Marcela [4], Rasoga, Oana [5]
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Mots-clés	electrical properties [6], Nanocomposite films [7], Optical properties [8]
Résumé en anglais	<p>In this paper we present some comparative studies between the optical and electrical properties of the films prepared by vacuum evaporation from amidic monomeric compounds obtained from maleic anhydride and aniline derivative with different functional groups [CN; NO<sub>2</sub>], and the composite films prepared by spin-coating from a polycarbonate of bisphenol A matrix embedding clusters of these amidic monomers. We have emphasised the effect of the polymeric matrix on the properties of the synthesised monomers with the purpose to change the physical properties of the films (optical transmission, luminescence, electrical conduction, optical non-linear phenomena). The correlation between the morphology of the films and the optical and electrical properties has also been investigated.</p>
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