

عنوان مقاله:

The Effect of Electro Deposition (ED) Coating Parameters on Surface Roughness Coating

محل انتشار:

چهارمین کنگره بین المللی پوشش های حمل و نقل (سال: 1393)

تعداد صفحات اصل مقاله: 3

نویسندگان:

L Shahriari - *Department of Polymer Engineering of Amirkabir University of Technology*

S Rastegar - *Department of Polymer Engineering of Amirkabir University of Technology*

H Mirzazade - *Department of Polymer Engineering of Amirkabir University of Technology*

H Yousefi - *Parskhodro Co, Tehran, Iran*

خلاصه مقاله:

The roughness of substrate surface in automotive paint is transmitted as telegraphic layers and one of its primary effects is the sickness loss which influences mechanical properties and erosion. It also affects optical properties such as DOI (resolution) and Orange Peel. In this project, the initial roughness was created and then the parameters of electrical coating bath such as voltage, immersion time and re-solubization time were changed independently and the final roughness was measured and the rate of surface coating was assessed. Finally, it was observed that the greater the degree of sandpaper was, the more the coating would be and by changing the applied voltage it was possible to achieve appropriate coating. Immersion time changes was observed to be independent of coating surface roughness and by changing the re-solubization time the surface coating was improved, which the thickness dropped sharply and actually false coating occurred and finally due to complex conditions no specific trend was observed in baking conditions changes.

کلمات کلیدی:

surface roughness, Electro Deposition (ED) coating, voltage, immersion time, baking time, re-solubization

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