

World Applied Sciences Journal 2014 vol.29 N4, pages 555-559

Light-Reflecting coatings on the basis of polymeric powder compositions and micro spheric reflectors

Shveyov A., Kurin S., Zharin E., Shafigullin L., Gumerov A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Tailored compositions and the structure of light-reflecting coatings with the use of thermosetting polymeric powder compositions and micro-spheric reflectors on the basis of inorganic glass are developed. In order to get light-reflecting coatings with the preset complex of optical and physical-chemical figures we developed technological process. The technological process of powder compositions application and coating formation is carried out with the help of the specialized equipment complex. We defined the basic optical properties of the coatings and optimum operating parameters of their derivation. We developed optico-physical model of multilayer filled coating structure considering the optical and other characteristics of the components which form the coating. © IDOSI Publications, 2014.

<http://dx.doi.org/10.5829/idosi.wasj.2014.29.04.13882>

Keywords

Coatings, Composition, Equipment, Micro-spheric reflectors, Polymeric powder compositions, Structure, Technology