Abstract

TiO2/Nylon photoactive systems were obtained using two physical methods of immersion-diffusion and using two immersion times of 11 and 24 hours. Nylon fabrics (nylon 100%) with different pre-treatments were used to study their effect in the morphologic and the structural characteristics of the obtained coatings. The produced systems were characterized by visual inspection, SEM, chemical analysis EDS and FTIR-ATR. The results show supported TiO2 in all the systems nevertheless their characteristics change according with the method and the time used. The coating obtained by sol-gel to 11 hours presents the best properties.

Keywords