

عنوان مقاله:

Preparation and characterization of double walled microcapsules containing benzoyl peroxide

محل انتشار:

دوازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1395)

تعداد صفحات اصل مقاله: 2

نویسندگان:

M Raeesi - Color & Surface Coatings Department, Iran Polymer and Petrochemical Institute, Tehran, Iran

S.M Mirabedini - Color & Surface Coatings Department, Iran Polymer and Petrochemical Institute, Tehran, Iran

خلاصه مقاله:

Double-wall microcapsules containing benzoyl peroxide, BP, were synthesized using a two-step route. In the first step, interior microcapsules' shell was formed via complex coacervation of gelatin in the presence of sodium polyphosphate under mechanical agitation. In the second step, exterior shell was shaped by means of in situ polymerization of urea- formaldehyde. Optical microscopy, SEM and FTIR techniques were used to characterize prepared microcapsules. The results revealed that BP was successfully encapsulated inside the microcapsules with a regular spherical shape, 40-120 μm in diameter and smooth surface

کلمات کلیدی:

Microencapsulation; Gelatin; Poly urea formaldehyde; Benzoyl peroxide

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/578464>

