

عنوان مقاله:

Investigation of TiO₂ Pigment Dispersion in ABS Matrix Using Rheological Parameters

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

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خلاصه مقاله:

At oscillatory rheometry method in linear viscoelastic region, storage and loss modulus vs. frequency graph of ABS at molten state has two crossover points (COP). First COP increases while TiO₂ content arises up to 1.5% in Cristal 134 pigmented ABS samples. By arising TiO₂ firstCOP dramatically decreases because of agglomeration of the pigments. TEM micrographs approve that agglomerates of Cristal 134 particles are formed above 1.5% content. Therefore, shifting of first COP as a rheological parameter could be applied as a criterion to specify dispersion quality of TiO₂ particles in ABS matrix

کلمات کلیدی:

Polymer rheology, Compounding, Pigments, Titanium dioxide, ABS

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