

عنوان مقاله:

PREPARATION OF POLYANILINE/POLYSTYRENE COMPOSITES IN AQUEOUS AND AQUEOUS/NON AQUEOUS MEDIA USING DBSNA

محل انتشار:

اولین همایش ملی فناوری های نوین در شیمی و مهندسی شیمی (سال: 1392)

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خلاصه مقاله:

Polyaniline/Polystyrene composite was prepared in aqueous and aqueous/non aqueous media by polymerization styrene and aniline by using ammonium peroxy disulfate ((NH₄)₂S₂O₈) and potassium iodate (KIO₃) as oxidant in the presence of sodium dodecylbenzenesulfonate (DBSNa) as surfactant. The composite was characterized in terms of morphology, particle size, chemical structure and glass transition temperature. The results indicate that the morphology and particle size of product are dependent on the surfactant and solvent media used. The chemical structure was studied by Fourier transform infrared (FTIR) spectroscopy, scanning electron microscopy (SEM) and differential scanning calorimeter (DSC).

کلمات کلیدی:

composite, polyaniline, polystyrene, morphology, chemical structure, surfactant

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