

عنوان مقاله:

Synthesis and characterization of novel photoactive aromatic polyamides based on imidazole, xanthene and carbazole

محل انتشار:

بیست و هفتمین کنفرانس شیمی آلی ایران (سال: 1398)

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خلاصه مقاله:

Polyamides are high-performance materials and occupy an important place in the world of polymers owing to their thermal and oxidative stability, flame permanence, and mechanical and dielectric properties.¹ Most of them are generally difficult to process which is led to high crystallinity, low solubility, high melting point, and limited application.² In recent years, many studies have been done to improve the polymer structure to increase solubility and its processing ability.³ A group of new photoactive polyamides (PAs) based on imidazole with pendant group such as xanthene and carbazole was synthesized from new diamines and dicarboxylic acids. The structure of diamines and PAs were completely determined by FTIR and NMR. All of the polymers were good thermal stability and amorphous in nature, showed outstanding solubility and could be easily dissolved in amide-type polar aprotic solvents. Also, the antibacterial properties, optical activity and removal of heavy metal ions ability were studied.

کلمات کلیدی:

polyamides-imidazole-xanthene-photoactive-carbazole

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