

عنوان مقاله:

Synthesis of New Sulfonated Copolyimides with Built in Ether and Oligo Ethylene Glycol Sequence

محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

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خلاصه مقاله:

New sulfonated copolyimides with ether and oligo ethylene glycol sequence in back bone were synthesized by reaction of synthesized diamine 4,4'-bis(5-amino-1-naphthoxy)-benzophenon-3,3'-disulfonic acid(BANBPDS) in companion with two nonsulfonated diamines 4,4'-oxydianiline (ODA) and 1,8-diamino-3,6-dioxaoctane (DADO) and reaction with 1,4,5,8-naphthalene tetracarboxylic dianhydride (NTDA). After characterization of the monomers and polymers with common methods the sulfonated polyimides were characterized for their viscosity, molecular weight, processability, solubility, and thermal stability. All the sulfonated polyimides had good thermal stability and exhibited a three-step degradation pattern while have good processability and solubility

کلمات کلیدی:

sulfonated copolyimide, ether group, oligo ethylene glycol sequence, thermal stability

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