

عنوان مقاله:

Aqueous Dispersion Terpolymerization of Acrylonitrile, Acrylamide and Itaconic acid with Redox Initiator

محل انتشار:

یازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1393)

تعداد صفحات اصل مقاله: 2

نویسندگان:

Hossein Tarighi - Malek Ashtar University, 158751774 Tehran, Iran

Mohammad Fallahian - Sahand University of Technology, 51335-1996, Tabriz, Iran

Mohammad Andideh - Iran Polymer and Petrochemical Institute, 14956/115, Tehran, Iran

خلاصه مقاله:

Aqueous dispersion terpolymerization of acrylonitrile (AN), acrylamide (AAM) and itaconic acid (IA) was carried out in water at 40 °C using ammonium persulphate (APS) and sodium bisulfite (SBS) as initiators. Monomers composition in feed were 97.5/2/0.5 and 96.5/2.5/1 (AN/AAM/IA). The polymers were characterized by using Fourier transform infrared spectroscopy (FTIR), Differential scanning calorimetry (DSC). The dilute solution viscosities of these terpolymers were studied as a function of molecular weight. The incorporation of 2.5mol% AAM and 1mol% IA into terpolymer showed the better thermal behavior for carbon fiber producing

کلمات کلیدی:

Terpolymer, Acrylonitrile, Comonomer, Molecular weight, Thermal behavior

لینک ثابت مقاله در پایگاه سیویلیکا:

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