

عنوان مقاله:

Effect of molecular weight of polyol on rheological behavior of polyurethane dispersion

محل انتشار:

دوازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1395)

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خلاصه مقاله:

Polyurethane dispersions (PUDs) have recently emerged as important alternatives to their solvent based counterparts for various applications due to increasing health and environmental awareness. A series of aqueous polyurethane dispersions containing carboxylate anion as hydrophilic pendant groups were synthesized through step growth polymerization reaction using isophorone diisocyanate (IPDI), 2- bis(hydroxymethyl) propionic acid (DMPA), polyethylene glycol (PEG) of various molecular weight and triethylamine (TEA) by the acetone process. Effect of PEG molecular weight was investigated on molecular structure and physical and rheological properties of polyurethane dispersions

کلمات کلیدی:

Polyurethane dispersions, viscosity, Rheology, Molecular weights

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/578138>

