

Solid-State Polymerization of Poly(bisphenol A carbonate)

김영준^{1,2}, 김재훈^{1,*}, 김재택¹, 오성근²

¹한국과학기술연구원; ²한양대학교

(Jaehoonkim@kist.re.kr*)

Low molecular weight poly(bisphenol A carbonate) was crystallized three kinds of percent crystallinity using supercritical carbon dioxide. These were synthesized to high molecular polycarbonate by solid-state polymerization (SSP) as a function time and temperature. Nitrogen of atmospheric pressure was used as the sweep fluid to remove byproduct (phenol) in the SSP process. The crystalline properties and molecular weight were measured by differential scanning calorimetry (DSC) and gel-permeation chromatography (GPC) with light scattering detector.