

Polyspiroacetals (I) - Spiroacetal을 포함하는 Polyester의 합성과 그성질

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Several polyspiroacetals were synthesized by interfacial polycondensation from 3,9-bis(4-hydroxyphenyl)-2,4,8,10-tetraoxaspiroundecane [SAB] with aliphatic acid chloride. The majority of these polymers were soluble in polar solvents like *m*-cresol and phenol/tetrachloroethane (1:1), and the inherent viscosities were ranged from 0.15 to 0.29 dl/g. The T_g's were detectable at 60~125°C, whose values decreased with increasing aliphatic chain length. 5% Weight loss in TG curves were detected at 305~333°C in N₂ gas atmosphere. X-ray diffractograms showed that all of the polymer are crystalline at room temperature.