Effect of Cyclic Oligo (ethylene Terephthalate) on the Crystallization Rate of Poly (ethylene Terephthalate)

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Poly (ethylene terephthalate)s, of which cyclic oligomer content is different from each other, were crystallized on differential scanning calorimeter under iso-and nonisothermal conditions. Avrami equation was used to determine the rate of isothermal crystallization. The nonisothermal crystallization rate was also determined by using Ziabicki's and Jeziorny's methods. In both the iso-and nonisothermal cases, the retardation effect of cyclic oligomer on the crystallization rate of Poly (ethylene terephthalate) was found.