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Synthesis of aromatic oligoesterdiols and thermally stable polyurethane coatings on their basis

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Abstract

Aromatic oligoesterdiols were synthesized from bis-2-hydroxyethyl ether of 4,4′-dioxydiphenyl-2,2-propane and then used to obtain polyurethane coatings. It was established that these coatings are characterized by high thermal stability, hardness, durability and adhesion. It was shown that the hardness of coatings increase naturally with the increase in concentration of a polyisocyanate and reduction of molecular weight of oligoesterdiol.