

INTERFACIAL
COPOLYESTERCARBONATE METHOD
USING CATALYST COMPRISING
HEXAALKYLGUANIDINIUM SALT AND
TERTIARY AMINE

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ABSTRACT

The level of anhydride linkages in copolyestercarbonates is decreased by preparing the copolyestercarbonate interfacially in a two-step method from at least one dihydroxyaromatic compound and at least one dicarboxylic acid. The first step is conducted at a pH in the range of about 4.5-9.5, employing the combination of a hexaalkylguanidinium salt as a phase transfer catalyst and a tertiary amine such as triethylamine. The proportion of the phase transfer catalyst and tertiary amine are usually in the range of about 1-5 and about 0.01-5.0 mole percent, respectively, based on total dihydroxyaromatic compound and dicarboxylic acid employed. In the second phosgenation step, the pH is raised to at least 10 and a stoichiometric phosgene excess of at least 5% is introduced.

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