

A furan ring-containing polyester elastomer and preparation process and use thereof

Abstract

The present invention belongs to the technical field of polymers, and in particular relates to a furan ring-containing polyester elastomer and preparation process thereof. The present invention adopts an approach of adding monomers into the reaction equipment in one shot to carry out a continuous reaction to prepare a high molecular weight, random copolymerized, furan ring-containing aliphatic-aromatic copolyester elastomer, so as to obtain a narrow distribution, high molecular weight product with an elastic recovery rate greater than 70%. The preparation process provided by the present invention is simple to operate and has strong process controllability, thus providing a novel process for preparing degradable thermoplastic copolyester elastomers, and the process is prone to realize the industrialization of products.

[Figure No. 12b]