

Abstract

HIGH STRENGTH ULTRA-THIN BIODEGRADABLE FILM AND PREPARATION METHOD THEREOF

The invention belongs to the field of biodegradable films, and discloses a biodegradable film and its preparation method. The biodegradable film is prepared from a composition comprising: a copolyester obtained by extrusion reaction of a branched aliphatic-aromatic copolyester derived from monomer a, monomer b, monomer c and monomer d with an organic peroxide. The film can be completely degraded into small molecular products such as carbon dioxide, water and the like under natural or composting conditions. Moreover, the film can be prepared having a thickness of 4-50 μm as required, and its mechanical properties can reach the same level as or even better than those of LDPE film.

[No Suitable Figure]