

## Abstract

### PROPYLENE-BUTENE COPOLYMER, PREPARATION METHOD THEREFOR AND USE THEREOF

Disclosed is a propylene-butene copolymer. The copolymer contains, based on the total amount of structural units of the copolymer, 90-99 mol% of propylene structural units and 1-10 mol% of butene structural units. The xylene solubles content of the copolymer is less than or equal to 4 wt%, and preferably less than or equal to 3 wt%. The propylene-butene copolymer is substantially free of fraction having a molecular weight lower than 1000. The copolymer has a melt flow index of greater than or equal to 20 g/10 min as measured at 230 °C under a load of 2.16 kg. The propylene-butene copolymer of the present invention has the advantages of a high melt flow index and few xylene solubles, and does not contain a phthalate-type plasticizer, thereby being beneficial to the application thereof in fields such as food and medical and health services.

[No Suitable Figure]