

Abstract

BRANCHED OLEFIN POLYMER, PREPARATION METHOD THEREFOR AND USE THEREOF

The present invention belongs to the technical field of branched polyolefin materials, and discloses a branched olefin polymer, a preparation method therefor and the use thereof. The branched olefin polymer is obtained by polymerizing at least one C4-C20 nonterminal olefin monomer with optional ethylene, propylene, and C4-C20 terminal olefin monomers; and the branched olefin polymer has the following characteristics: (a) a molecular weight of 20000 to 500000 g/mol; (b) a molecular weight distribution of 3.5 to 6.0, and a bimodal structure characterized by GPC; (c) a melting point of 0°C to 110°C and a glass-transition temperature of -80°C to -50°C; and (d) having 20 to 200 methyl groups per 1000 methylene groups.

[Figure 2]