

ABSTRACT

4-METHYL-1-PENTENE POLYMER, RESIN COMPOSITION AND MOLDED

ARTICLE

An object of the present invention is to provide a 4-methyl-1-pentene polymer that possesses high heat resistance and suppresses white turbidity in the resulting molded article during steam sterilization. Another object of the present invention is to provide a 4-methyl-1-pentene polymer that possesses high heat resistance and improves the elongation of the resulting film. The present invention provides a 4-methyl-1-pentene polymer wherein: a content of a constitutional unit derived from 4-methyl-1-pentene is 90 to 100% by mol; a content of a constitutional unit derived from at least one olefin selected from ethylene and an α -olefin, other than 4-methyl-1-pentene, having 3 to 20 carbon atoms is 0 to 10% by mol; and the 4-methyl-1-pentene polymer satisfies the following requirements (a) to (e): (a) a meso diad fraction (m) measured by ^{13}C -NMR falls within the range of 98 to 100%; (b) a ratio of Z-average molecular weight M_z to weight-average molecular weight M_w (M_z/M_w) measured by gel permeation chromatography (GPC) falls within the range of 2.5 to 20; (c) a ratio of weight-average molecular weight M_w to number-average molecular weight M_n (M_w/M_n) measured by gel permeation chromatography (GPC) falls within the range of 3.6

to 30; (d) a melt flow rate (MFR) measured under conditions of 260°C and a 5 kg load in conformity to ASTM D1238 falls within the range of 0.1 to 500 g/10 min; and (e) an amount of a decane-soluble portion at 23°C is 5.0% by mass or less.

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[No Suitable Figure]