

Abstract

The invention belongs to the field of olefin polymerization and relates to a propylene-based copolymer, its preparation process and use, and a polypropylene composition thereof. The propylene-based copolymer can contain 60-95wt% of propylene-derived structural units and 5-40wt% of comonomer-derived structural units; the propylene-based copolymer has a comonomer dispersion degree $D_{[PCP]/[C]}$ in the range of 50%-70%, wherein the comonomer dispersion degree $D_{[PCP]/[C]} = [PCP]/[C] \times 100\%$. Upon blending the propylene-based copolymer of the present invention with a polypropylene, the copolymer has excellent compatibility with polypropylene, and can promote the crystallization of the polypropylene and can improve the mechanical properties of the resulting polypropylene material.

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Figure A3