

Abstract

The invention belongs to the field of polymers, and relates to a grafting-modified polypropylene material for an insulating material and preparation method thereof. The grafting-modified polypropylene material comprises structural units derived from a polypropylene copolymer and structural units derived from an alkenyl-containing polymerizable monomer; the content of the structural units derived from the alkenyl-containing polymerizable monomer and in a grafted state in the grafting-modified polypropylene material is 0.1 to 14 wt%; the polypropylene copolymer has at least one of the following characteristics: the comonomer content is 0.5 to 40 mol%; the content of xylene solubles is 2 to 80 wt%; the comonomer content in the xylene solubles is 10 to 70 wt%; the intrinsic viscosity ratio of the xylene solubles to the polypropylene copolymer is 0.3 to 5. The grafting-modified polypropylene material of the invention can give consideration to both mechanical property and electrical property at a higher working temperature.

[Figure 1]