

ABSTRACT

The present application relates to the technical field of composite materials, and particularly relates to antibacterial and antiviral furniture releasing negative oxygen ions, a home decoration board, and a preparation method thereof. The home decoration board in the present application is prepared with polyolefin resin and wood fiber as main raw materials, and by adding nano-silicon sheets, a lubricant, an antioxidant, a flame retardant, a coupling agent, and an inorganic reinforcing filler, various properties of the home decoration board are achieved, wherein by the addition of the nano-silicon sheets, the antiviral property and antibacterial property of the home decoration board can be effectively improved, a large number of negative oxygen ions can be released; by the addition of the flame retardant, the flame retardant property of the home decoration board can be effectively improved; by the addition of the inorganic reinforcing filler, the mechanical property of the home decoration board can be effectively improved; by the addition of the coupling agent, the compatibility and dispersion uniformity among various components can be effectively improved.

[Fig. 1]