

ABSTRACT

A functional fiber, preparation method thereof and the fabric made of it are provided. The preparation method includes the following steps:
5 rolling and milling plural first polyolefine chips, constant thermoplastic elastomer (TPE) and plural functional particles into plural masterbatches in twin-screw extruder; melting and mixing the plural functional masterbatches and plural second polyolefine chips which are the same as the first polyolefine into the composite material, wherein the final content
10 of the plural functional particles are 1-10 wt% based on the weight of the composite material; producing fibers with the composite material by spinning, cooling, heat stretching, and heat setting. The fiber may be made into fabric. The fiber and fabric have the function of deodorization, antibiosis, mildew-proof or generating negative ion and further improve the
15 air filtration effect.