

ABSTRACT

An imitating natural plant fiber, preparation method thereof and the fabric made of it are provided. The preparation method includes the following steps: rolling and milling the mixture of plural first polyolefine chips, constant thermoplastic elastomer (TPE) and plural microcapsules which encapsulate essential oil extracted from natural plant in the twin-screw extruder, thus plural masterbatches can be made; melting and mixing the above masterbatches and plural second polyolefine which is same as the first one, thus a composite can be made, wherein the final content of the microcapsules is 1-32% by weight; and producing fibers by spinning, cooling, heat stretching, and heat setting. The fiber and the fabric made of it have durable natural plant aroma.