

TITLE OF INVENTION: RECYCLED PET BLEND PROCESSING METHOD

ABSTRACT

A recycled poly(ethylene terephthalate) (rPET) blend processing method includes steps: adding a compatibilizer having a porous carbon structure to an rPET blend, wherein the rPET blend includes at least one of PET/PE blend plastic materials and PET/PP blend plastic materials; the porous carbon structure has a diameter ranging from 300nm to 10 μ m and a specific surface area of 300-1500 square meters per gram; mixing the compatibilizer and the rPET blend homogeneously to form a mixture; granulating the mixture to obtain mixture granules; and performing a pre-crystallization process and a solid-state polymerization process of the mixture granules, whereby to recycle and reuse the rPET hard to separate originally and reused, increase the crystallinity of the rPET, and raise the IV value to 0.6 and above.

[Fig.1]