

Research on the method of modifying the performance of using oxidation

JINXin, ZHUANG Chuan-bo, QU Jian-bo

College of Resource and Environment, Shaanxi University of Science & Technology, xi'an
710021, China

E-mail: jinxin@sust.edu.cn

Abstract: The research is about Using potassium permanganate, hydrogen peroxide and other oxidants, at the same time, using sulfate, ferrous sulfate, copper chloride as the initiator to treating the PA6/LDPE microfiber. So that the surface of polymer micro-fiber was beaten to pieces, the original amide bond was interrupted. The group numbers of the -COOH and -NH₂ increased a lot. On this basis, more other functional active groups could be introduced.

Key words: oxidation; PA6/LDPE microfiber, modified