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(54) Title: PROCESS FOR PREPARING ANTIMICROBIAL ELASTIC FIBER

(57) Abstract: Disclosed herein is a process for preparing an antimicrobial elastic fiber. The process comprises: mixing a glass compound, as an antimicrobial agent, containing ZnO, SiO_2, and an alkali metal oxide, and having an average particle size of 0.1 μm to 5 μm, with a dispersant; sand grinding or milling the mixture; and adding the ground or milled mixture to a solution of a segmented polyurethane polymer to prepare an elastic yarn. The process can provide advantageous effects that spinnability is improved and the color of yarn remains unchanged.