

THERMOPLASTIC POLYMER FOAMING SOLE AND METHOD FOR MANUFACTURING THERMOPLASTIC POLYMER FOAMING SOLE

ABSTRACT

A method for manufacturing a thermoplastic polymer foaming sole includes the following steps. A prototype is formed. The prototype includes thermoplastic polyurethane or thermoplastic polyester elastomer but excludes a cross-linking agent and a foaming agent, and the prototype is sole-shaped. A supercritical fluid is used to foam the prototype so as to directly get the thermoplastic polymer foaming sole. A density of the thermoplastic polymer foaming sole is larger than or equal to 0.3 g/cm^3 and smaller than or equal to 0.8 g/cm^3 .

FIG. 1