

Abstract

A method for the manufacture of a static mixer in an injection molding process includes the steps: injecting a polymer melt containing a foaming agent into a
5 passage at an injection point at an injection pressure of less than 500 bar; filling the passage with the polymer melt containing a foaming agent; at least partial foaming of the melt containing a foaming agent in the passage, with the ratio of flowpath to wall thickness amounting to at least 10. A static mixer including an installation body (1, 101) for installation into a tubular mixer
10 housing is manufactured by means of an injection molding tool suitable for the process. The installation body (1, 101) has a longitudinal dimension (24) and a diameter (36). The ratio of longitudinal dimension (24) to diameter is larger than 1 and the installation body (1, 101) is made up at least partly of foamed plastic. The ratio of longitudinal dimension (24) to wall thickness (7) amounts
15 to at least 10. The installation body (1, 101) is made up at least partly of foamed plastic, with a ratio of flowpath to the wall thickness of at least 10 being present.

(Fig. 1)