

Abstract

The invention relates to a form tool for producing particle foam molded parts having at least one tool part consisting of a finite number of layers which are parallel to each other, at least in segments, in which the individual layers have
5 contours such that a stack formed by the totality of all layers defines at least one part of a form cavity which can be filled with expandable beads of a thermoplastic material, and having means for supplying and discharging gaseous and liquid heat transfer media. In order to obtain a faster production of particle foam molded parts with improved surface quality and uniform welding of the foam particles and in
10 the same time a reduction of the energy quantity necessary for the production of the molded parts, it is proposed that the layers are arranged, at least in their regions adjacent to the form cavity, at a defined distance to each other to form channels which are outwardly sealed but are open inside the tool part for the penetration of the gaseous and liquid heat transfer media.



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