

CONSTRUCTIVE SOLUTIONS REGARDING THE OPTIMISING OF SEMIMOULD INJECTION TEMPERATURE TO CONCAVE PIECES SHAPE

Ștefan Mihăilă¹, Sorin Ilie² & Flavius Ardelean¹

¹ University of Oradea-Romania, Department of Machine Manufacturing Technology

² S.C. PLASTOR S.A Oradea- Romania

Corresponding author: Stefan Mihaila, mihailasna@yahoo.com

Abstract This work presents the new methods regarding the injection moulds cooling for thermo plastically materials, having special references to the complex pieces shape having a great weight of walls.

The paper presents a new method of smoothing the temperature in the form of concave seminoulds who do not own nes The design consists of cooling circuits which follow the contours of the outside part at a distance equal. The method has high efficiency to parts which have the diameter, wall thickness and height of high precision and high dimensional.

Finally, it is shown study presents the deformation of the five types of the often material used in practical.

Key words: mould, thermoplastic, injection, temperature, cooling, thermal.

