

**ABSTRACT**

This invention relates to a method for molding of thermoplastic materials in particular so as to improve on the part quality by eliminating defects such as weld-lines, etc. It comprises of a standard conventional injection molding machine, a tool (or mold) and a separate, independent, external self-contained control system which may be readily attached to and readily removed from the molding machine, the tool (or mold) as well as any other auxiliary equipment needed for the injection molding process. The tool or mold could be either standard cavity mold or multiple cavities mold moving in a sequential motion or injection-compression molding. The method involves rapidly heating a mold cavity to a predetermined temperature using hot dehumidified air, followed by application of vacuum over the mold cavity so that the molding material is held rapidly towards the mold before application of super-cold water for the rapid cooling of the molded article.

**Use Figure 5**

**THE END**



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