URN etd-0407109-183723-1922
Author QIAO-DONG JI
Author's Email Address No Public.
Statistics This thesis had been viewed 43 times. Download 65 times.
Department
Year 2005
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Application of using Mold-Flow Analysis in chair mold process
Date of Defense 0000-00-00
Page Count 65

Keyword
Mold-Flow
Chair model
PP

Abstract
Plastic Injection molding was an important process of manufacturing. In this new age, designers combined product design with molding fabrication and mold-flow analysis to complete the simulation that made sure of availability for manufacturing product. The software of mold-flow analysis had been widely used gradually, but the design of product was become more complicated day by day. The traditional 2.5 dimensional mesh method has been already unable to satisfy the product requirement .So this study used 3 dimensional fusions to create mesh.
This study, mold-flow was used by PP for chair model which solving the air trip, short shot, and warp effectively in the product performance. But injection fill times, pressure and mold temperature were affected the product's density, appearance and toughness. In this study, mold-flow was used the parameters were shown as follows: mesh sizes, injection position, mold pressure, packing pressure, melt temperature ,mold temperature….etc, and found out the each results after analysis, then fixed the optimal double mold's parameters to reach the short process times and more molding quality objective.
Advisory Committee - advisor

Files etd-0407109-183723-1922-001.pdf
etd-0407109-183723-1922-002.pdf

indicate access worldwide
Date of Submission 2006-07-07