URN etd-0407109-183710-714
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Statistics This thesis had been viewed 46 times. Download 0 times.
Department
Year 2007
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title The Analysis of Mold flow for Compressed Fan by Using Nylon-6/Clay
Date of Defense 0000-00-00
Page Count 73
Keyword
Moldflow
Nylon-6/clay
Compressed fan.

Abstract
Using plastic material can lower the cost, especially in mass production. Due to the less hardness of plastic, it can hardly replace metal product. The injection molding of plastics is the most popular processing of mass production, at present. In order to get the plastic product will perfect quality. It not only need the best design for mold, but also must figure out the optimal processing parameter. And then it can manufacture any product.
The Nylon-6/clay has a high solid configuration, it can be substituted for metal in manufacturing product, when Nylon-6/clay is applied to the turbofan, it can improve the hardness of the blades, which means it can improve the heat and abrasive endurances. When it substitutes for metal in manufacturing product, it can improve the process speed lower the cost, and recycling more efficiently. Using Tachugi method and moldflow software simulation analyze. The injection molding process to find out the optimal parameter. The processing parameter has systematic simulated at defferent melting temperature, mold temperature, packing time, packing pressure and relocity rate.
Advisory Committee - advisor

Files No Any Full Text File.
Date of Submission 2008-08-12