

Rungtham Panyawipart 2010: A Development of Design and Making of the Rubber Mould for Motor Boots Used in Mobile Phones. Master of Engineering (Mechanical Engineering), Major Field: Mechanical Engineering, Department of Mechanical Engineering. Thesis Advisor: Assistant Professor Supasit Rodkwan, Ph.D. 96 pages.

Presently, micro-mould and micro injection moulding is widely used in many industrials. However, in Thailand, the designing and manufacturing of micro-mould still depend on oversea technology such as imported mould and oversea mould manufacturer. Furthermore, these processed need to use high technology and modern machine, such as computer aided engineering in rubber injection moulding simulation. In this research, the rubber injection moulding simulation is used to optimize the design of runner and gate to make the motor boot injection mould. The experimental results show the balance of rubber flow in runner same as simulation results. The results shown that, using of computer aided engineering in rubber injection moulding simulation can reduce the try-out time and more performance design. According to overall point of views, this research is the guide line and basis of the design and manufacturing of rubber injection moulding.

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Thesis Advisor's signature