DIPLOMA THESIS EVALUATION

First name and surname : **Nirav Ganeshbhai Sailor**

Topic name : **Computer Modeling Verification of Microcellular Injection Molding   Process using Physical Blowing Agents**

Supervisor : **Ing. Pavel Brdlík, Ph.D.**

1. Diploma thesis evaluation

	Excellent	Very good	Good	Insufficient
Accomplishment of diploma thesis range specification		X		
Diploma thesis professional level		X		
Applicability of results and its contribution to practice		X		
Self-reliance and initiative during the thesis solution			X	
Diploma thesis graphic and content format			X	

Note: Evaluation is marked by **X** in the relevant position

2. Concrete recommendations to the diploma thesis

The diploma thesis deals with comparison of computer modeling analysis of microcellular injection molding process using physical blowing agents with real production. To accomplish of this task, the simulation software Cadmould 3D F and MUCELL technology were used. Three different materials (ABS, PP and PP reinforcement with glass fibers) and two process parameters were applied, to investigate influence on the cell structure creation and accuracy of computer prediction. The evaluated parameters were cell size and its distribution, density and products mass.

The diploma thesis is according content and expertise on very good level. Especially in theoretical part author proved his knowledges about issue of microcellular injection molding. I do not have any significant comments to the submitted diploma thesis. Only the graphic format could be at a higher level. Student could also show more self-reliance during realization of topic.

I believe that, the achieved results of diploma thesis are possible to apply in practice.

3. Diploma thesis supervisor classification

Very good

In Liberec, dated 7. 6. 2017

diploma thesis supervisor signature

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