

DIPLOMA THESIS EVALUATION

First name and surname : Devang Kanaiyalal Prajapati

Topic name : Study of Weldability of Thermoplastic Polymers Modified with Different Additives by Laser Welding

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 the weldability of polypropylene modified with different additives by Yb:Fibre laser welding technique developed by VÚTS, a. s. To accomplish this task, several combinations of carbon black, glass fibers and product wall thickness were tested. As the evaluated parameters there were process welding adjustment, visual quality and mechanical properties of joint which were determined by the tensile test (due to standard TL52018).


The diploma thesis is according content and expertise on very good level. Especially in theoretical part, author proved his knowledge about issue of laser welding. I do not have any significant comments to the submitted diploma thesis. Student made a lot of experimental measurements but there could be applied also another evaluation methods. 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 06. 06. 2018



 diploma thesis supervisor signature