

Master of Science in Materials and Production Engineering

Melt flow index (MFI), Shore hardness, Vicat/HDT and LOI analysis

Laboratory activity report
Course of Polymeric Materials Engineering

Giacomo Mori 207674 Veronica Pallua 206956 Lorenzo Penna 208221 Gabriel Orsi 207696 Laura Simonini 207317 Alessandro Sorze 207017 Federico Vespa 206913

Trento (Italy), jun 2019

Academic year 2018-19

Abstract_

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus at est non arcu dapibus eleifend. In facilisis, erat ullamcorper condimentum venenatis, magna mi consequat enim, ac faucibus velit libero ut sapien. Nam fringilla elit at magna imperdiet dapibus. Vestibulum malesuada fringilla placerat. Suspendisse potenti. Nam ac vehicula nibh, eget suscipit purus. Curabitur tempus erat id pulvinar consectetur. Etiam quis diam magna. Etiam feugiat vulputate consequat. Nulla libero ligula, tempor quis mollis in, placerat vitae nisi. Proin ornare ut eros ac rhoncus. Integer et metus non mi pharetra sagittis. Praesent dignissim erat vel magna efficitur, sed efficitur mi viverra. Interdum et malesuada fames ac ante ipsum primis in faucibus. Vivamus non ipsum non purus feugiat interdum non vel odio.

1 Introduction

2 Experimental activity

2.1 Compounding (Internal Mixer)

The process has been carried out with the instrument Thermo Haake Rheomix 600. The processing parameters used are the following:

- Temperature $T = 200^{\circ}C$
- time t = 10 min
- Rotation speed $\omega = 50 \text{ rpm}$

The sample used has the same composition as Plate 1 sample with a mass of 32.05 g.