

## Instructions for Polymer Processing Lab Report

The style of the report is based on the type of “Engineering Report”, a professional engineer would have to complete in a working environment. The report should be **typed by a computer** and consist of:

i. A Title Page including: student number, student name, group name, experiment name, and date. (5 pt)

**Note:** You must **name** your **document** according to “Title Page” scheme (i.e., **studentGroup\_studentNo\_studentName\_experimentName**) without date part.

ii. An Introduction that briefly introduces the polymer extrusion process, describe the steps from pellet feeding to getting semi-finished product. Define the functions of extruder parts used in process. A Background section that briefly discusses

a. Differences between single and twin screw extruders (10 pt)

b. Typical zones of single and twin screw extruders (5 pt)

c. Die and screw parameters and their influence on characteristics pressure-throughput curves. (15 pt)

iii. Equipment & Materials (10 pt)

iv. An Experimental Procedure section that carefully summarizes the methods used, the material(s) studied and the apparatus used. (20 pt)

v. A Results and Discussion section that explains how to choose the extruder type, die and screw parameters for different types of polymers (e. g. rubber or LDPE) (30 pt)

vi. References (American Psychological Association Style) (5 pt)

The nature of working in groups implies that there should be cooperation and discussion between members of the group and the lab instructor. It is, however, **expected that when students prepare their reports, that they do so individually using their own words and interpretation. Plagiarizing or blatant copying of a report or reference will result in an automatic zero for the lab!!! (do not copy-paste)**

Reports will be **digital** copy (MS Word or PDF document), digital copies will be sent to [www.turnitin.com](http://www.turnitin.com). Upload your files (you need to be logged in) with 40958733 class ID and Mlz447 enrolment key. Students are responsible to submit their reports to the corresponding **Turnitin Class until 17:00 one week after the experiment**. The lab instructor will grade the reports within a week and will post the results. If you wish to discuss the grade, make an appointment to see the lab instructor at his convenience.