Polymer Processing & Application Lab

In this lab different polymer processing techniques to produce different products are visualized. The main purpose of this lab is the utilization of different formulations to produce a specific product which has better properties and more economical.

This lab contains following units:
1. Injection Molding Machine
2. Blown Film Extruders
3. Sealing and Cutting Machine
4. Extrusion Blow Molding Machine
5. Recycling Extruder
6. Mechanical Neck Cutter
7. Magnetic Separator

Flow Properties of Polymers using Fluometer.
Analysis of Rheological properties of polymers using Brookfield Rheometer.
Analysis of flow behavior and extrusion behavior of polymers using Melt flow indexer.

The specimen is physically deformed by a rotating platen which will determine changing viscosity at preset temperatures.
Software is an integral part of any testing apparatus this is why we need a program to work dependably with this machine and intuitive with the operator.