

CHAPTER V

CONCLUSIONS

The conclusions from the study are as follows:

1. Resins with different molecular structure give films of different properties. The poorest film was found to have the highest amount of hexane extractable low molecular weight polyethylene. It also has the highest melt elasticity.
2. High melt elasticity induces flow defect in film surface leading to a film with poor optical clarity.
3. Tensile strength, thermal shrinkage and tear resistance properties of blown film depends largely on the molecular orientation in film which in turn depends on molecular structure of the polymer regardless of the processing conditions.
4. Good resin has higher chain entanglements and hence higher drawability.
5. Large scale crystalline structures are found in the film with poor clarity.