

## **CHAPTER IV**

### **CONCLUSION AND RECOMENDATIONS**

#### **4.1 Conclusion**

Calcium/zinc stabilizers for rigid PVC profile have been blended with numerous co-stabilizers since stabilizers and co-stabilizers in this system have some disadvantages. However, good properties can be achieved, such as good surface appearance, heat stability, melt index and Izod impact strength. Since this formulation is used for indoor use, low vicat temperature is not relevant to this application. The yellow tint of this formulation can be minimized by the addition of white pigment. Therefore, this formulation can be used instead of the Pb-stabilizer system formulation in indoor application with the addition of white pigment.

#### **4.2 Recommendations**

The following recommendations are given for future work.

1. Study the processing aid systems to use instead of ESBO for improvement of vicat temperature.

2. Study the effect of other heat stabilizers on the initial color to improve color tint.
3. Study the way to lower the cost as the cost of the Ca/Zn stabilizer system is higher than that of the Pb-stabilizer system.