



## CHAPTER V CONCLUSION

In this study, HDPE-g-MAH and PP-g-MAH prepared in the laboratory with obtained grafting degree approximately 2 % - 2.5 % were used together as a compatibilizer in HDPE/PP blend in an attempt to help recycling of plastic by avoiding the need to separate the two kinds of polymer. The results indicated mechanical properties were not remarkably changed when compared with uncompatibilized blend at every compatibilizer content from 1, 3, and 5 phr and main properties was depended on major phase of the blend. The only improvement observed was in the % strain of L-HDPE/L-PP base blend and the optimum compatibilizer content was used at 5 phr.