

## **CHAPTER V**

### **CONCLUSIONS**

The compatibilizers played an important role in improving some mechanical properties of the blends. It has been shown that tensile strength, tensile modulus, elongation at break, and flexural strength of the blends increased with an introducing of the compatibilizer into the blends. EAA and PE-g-MA could be used to improve tensile strength, tensile modulus, and flexural strength of the blends while elongation at break of the blends could improve by using EVA or PE-g-MA as a compatibilizer. However, the addition of the compatibilizer had an adverse effect on the flexural modulus and impact resistance. The flexural modulus and impact resistance decreased when the compatibilizers were added. Moreover, the studies of the effect of compatibilizer content illustrated that most of the mechanical properties decreased when the compatibilizers were added higher than 10 wt% based on starch. Furthermore, the addition of the compatibilizer could reduce the water absorption of the blends especially in the EAA compatibilized blends.