CHAPTER V
CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Surface modification technique improves the interfacial adhesion of WPC. Reactive surface modifier gives a result to properties better than non-reactive coupling agent. High percent of wood flour in WPC can reduce the price of product but too high ratio component have an effect in mix ability. At 50:50 of wood:PP gave the highest Young's Modulus in tensile, impact and flexural testing.

When using coupling agent 2, 6 and 10%wt we found that increase percent of acrylic acid monomer the result in tensile, impact and flexural test, water absorption, degradation temperature and compatibility increase respectively.

Recommendations

1. Increase the amount of coupling agent to find the maximum mechanical properties.
2. For water absorption test, increase the testing time to investigate the maximum water resistance.