

CHAPTER V

CONCLUSION

5.1 Conclusion

Concluding from the study that has been done:

- The addition of gambier wastewater affected the mechanical properties of the bioplastic films, increasing the film's tensile strength and modulus of elasticity, while reducing its elongation. The highest tensile strength was obtained from the SCG10 variation, with a tensile strength of 3.58 MPa, a modulus of elasticity of 96.36 MPa, and an elongation of 27.57%.
- The gambier wastewater addition to the bioplastic composition reduces its UV transmittance, with the lowest value of 0% transmittance obtained in all bioplastic film variations with Gambier wastewater addition.

