

The relationship of pulp yield with ethanol pulping concentrations on Acacia hybrid

Abstract

This study aimed at determining the total yield, screened yield, rejected yield, Kappa number and viscosity of organosolv Acacia hybrid pulp. Acacia hybrid wood chips of uniform size were used to undergo pulping in a digester with five different ethanol concentrations, 50, 60, 70, 80 and 90 % (v/v) with 1 M of sodium hydroxide as catalyst and water. All chips were digested at 185 °C, duration of 3 h cooking time and pressure 1.1–1.2 MPa. It was observed that increasing of ethanol concentration has led to increment in pulp yield and degree of delignification.