

RPF의 순산소 가스화 특성 연구

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Oxy gasification was performed for the production of high quality syngas from the waste. CO₂ was used as reactant with O₂ for CO₂ gasification and greenhouse gas reduction. Therefore, gasification was performed at high temperature of 1000–1400°C. RPF was gasified in the thermobalance and 0.5t/d pilot plant gasifier. Weight variation with temperature and CO production by Boudouard reaction were studied for CO₂ gasification of RPF in thermobalance reactor. Syngas of high H₂ concentration was produced from oxy gasification in 0.5t/d pilot system, which showed appropriate H₂/CO ratio for the production of transport fuel and chemical products.