

solid plastic waste containing carbonaceous materials such as plastics and biomass. Thermal pyrolysis of high-density polyethylene waste was simulated in ASPEN HYSYS V11 and UNISIM. From the simulation results, we conclude that ASPEN HYSYS is an ideal simulator for this process, giving us a yield of 82.9%. Regarding the economic evaluation, the invested capital is returned after five to a maximum of seven years of operation.

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