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EFFECT OF HEATING RATE ON PAPER WASTE RESIDUES OF MUNICIPAL SOLID WASTE COMPOSITION

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ABSTRACT

The generation of municipal solid waste (MSW) and handling of MSW are two parallel activities observed now-a-days. The conversion of MSW into energy either incineration or gasification or pyrolysis are the three thermochemical conversion options which are available. In case of any thermochemical conversion process, reactor design plays a vital role. The reactor design is based on kinetic studies and these studies are associated with heating rate. The objective of present work focuses on the effect of heating rate at 5, 10 and 200C/min on the residues of newspaper, printing paper, glossy paper and cardboard waste existing in MSW composition obtained after thermal decomposition in case of Thermogravimetric Analysis (TGA).

Keyword: Municipal Solid Waste, Kinetic Studies, Heating Rate, Thermogravimetric Analysis.

