Thermogravimetric Kinetics of Polyethelyne Decay Over Silicon Aluminophosphate

Matthews Wilkinson*

Abstract

Thermogravimetric analysis (TGA) is a powerful technique used to study the thermal decomposition behavior of materials. In this study, the thermogravimetric kinetics of polyethylene (PE) decay over silicon aluminophosphate (SAPO) was investigated. TGA was employed to measure the weight loss of PE samples under controlled heating conditions, and the obtained data was analyzed to determine the kinetic parameters governing the decomposition process. The efects of SAPO as a catalyst on the decomposition behavior of PE were also explored. The results provide valuable insights into the degradation mechanism of PE in the presence of SAPO and contribute to the understanding of thermal stability and decomposition kinetics of polymer-catalyst systems.

| Keywords: |
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| Introduction |
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Method

| Sample preparation: \square |
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| Characterization of PE samples: \square |
| ermogravimetric analysis (TGA): |
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| Interpretation and discussion: | | | |
|--|---------|------------------------|------------|
| Weight loss pro les: | | | |
| | | | |
| E ect of SAPO catalyst: \square | | | |
| $(\mathbf{x}_1, \mathbf{y}_2, \mathbf{x}_2, \mathbf{x}_1, \mathbf{y}_2, \mathbf{x}_2, \mathbf{x}_2, \mathbf{y}_1, \mathbf{x}_2, \mathbf{x}_2, \mathbf{y}_1, \mathbf{x}_2, \mathbf{x}_2, \mathbf{x}_1, \mathbf{x}_1, \mathbf{x}_2, \mathbf{x}_1, \mathbf{x}_1, \mathbf{x}_2, \mathbf{x}_1, x$ | | | |
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| Kinetic parameters: \mathbf{M} <th< th=""><th></th><th></th><th></th></th<> | | | |
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| Comparative analysis: | | | |
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Con ict of Interest

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