

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Dari penelitian pengolahan limbah *film* LDPE menjadi bahan bakar cair menggunakan pelarut *stearin*, dapat ditarik kesimpulan bahwa :

1. Semakin tinggi temperatur yang digunakan, maka *%loss* yang dihasilkan akan semakin besar.
2. Semakin lama waktu reaksi berlangsung, maka *%loss* yang dihasilkan akan semakin besar.
3. Temperatur 295°C merupakan temperatur batas atas untuk percobaan menggunakan *stearin*, dikarenakan hasil sudah berbentuk padatan semua dan terdapat hasil yang gosong.
4. Variasi 295°C merupakan variasi temperatur terbaik, karena pada variasi 295°C ditemukan fraksi cair.

5.2 Saran

Saran untuk penelitian pengolahan limbah *film* LDPE menjadi bahan bakar cair adalah :

1. Dapat dicoba kondisi operasi yang berada di antara 265°C dan 295°C untuk mendapatkan fraksi cair yang lebih besar.
2. Dapat dicoba waktu reaksi yang berada di antara 1 jam dan 2 jam untuk mendapatkan fraksi cair yang lebih besar.
3. Dapat dicoba untuk menganalisis pengaruh pengotor pada plastik terhadap fraksi cair yang dihasilkan

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