

**Uji Kinerja Mesin 4 Langkah Berbahan Bakar Plastik *Polypropilene (Pp)* Hasil *Pyrolysis*
Sebagai Campuran Peralite**
*(Performance Test Of 4 Step Machines Based On Plastic Polypropilene (Pp) Results Of Pirolisis
As A Peralite Mixture)*
Dosen Pembimbing I, Aditya Wahyu Pratama, ST.,MT

Dicky Wahyu Pribadi
Automotive Mechine Study Program
Majoring of Engineering

ABSTRACT

Utilization of polypropilene plastic waste by using pyrolysis process to be made into polypropilene fuel by using a pyrolysis reactor which will be used as a standard fuel mixture peralite fuel with a mixture of 5%, 10%, 15%, and 20% for testing the power torque and consumption fuel on a 125cc supra x motor using the dynotest. Testing torque of power and fuel consumption is known for testing 1. Torque and Power and maximum fuel consumption produced are contained in a mixture of 80% peralite fuel + 20% polypropilene fuel produced by 4.3 HP and torque of 12, 16 Nm at the start of Rpm which is 2500 rpm with running time on dynotest 9.22 seconds with fuel consumption of 5 ml .. while the maximum in test 2 that results from a supra x 125cc motor with pure peralite fuel + 20% BBPP of 4.1 HP at Rpm 2500 and the highest torque generated is 11.55 Nm at the initial Rpm of 2500 rpm with running time at dynotest 9.82 seconds with fuel consumption of 5.5 ml. The lowest fuel consumption in the 10% BBPP mixture with 4ml / running

Keywords: BB Polipropylene, BB peralite, Torque, Power, Fuel Consumption