

Pembuatan Polialkid untuk memperpanjang rantai monogliserida

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Abstrak

One of CPO (Crud Palm Oil) components is monoglyceride. The research is done to process CPO in order to obtain the monoglyceride. The monoglyceride is not stabil, tightly chain, and low molecular weight.

Monoglyceride is polyol that can react with

isocyanate to form polyurethane. Isocyanates used are toluene diisocyanate (TDI) and desmodur.

Polyurethane can be used for binder of rocket propellant. The processing of CPO refers to polyurethane properties desired, namely viscosity and binding adhesive. From this research, it is resulted that reaction with TDI will form polyurethane with viscosity and binding adhesive desired. Monoglyceride which has a small molecular weight and short sleeves, so that the polymer chain is difficult to stabilize. Efforts to extend the chain monoglyceride done so the polymer chains are not too tightly, when the polymer chains too tightly so that the distance of the short molecules repel force generated molecules and resulted in no stable. Do with multiple variables average yield is quite good, there is made reference to the bonding power as makers polyalkid polyurethane by reacting with isocyanate, desmodur to make polyurethane as a heatresistant adhesive and solid propellant fuel binder on composite.