

New Application of Emulsification Technology for the SDGs Era

~Reducing waste through control of emulsification and separation~



We confirmed that M-polymer containing emulsion could be separated and recycled. In addition, we confirmed that the emulsion containing a volatile oil could be separated. Therefore, we thought that this recycling could be applied to all types of M-polymer containing emulsions. However, the recovery method used in this research used heating and the recovery rate of M-polymer was not high enough. To establish truly sustainable recycling, we must improve the recovery rate without using a heating process.

Aethods in detail

ult 1B t%, squalane 20 vater 57.9 wt%

sult 2) I with M-polymer 1 wt%, Isodode ana 65 wt%. Glucarin 6 w ox set at 60 °C for 2 weeks n concentrated by evapora

ult 3B)

on (V) w ed for 2 weeks at 60 °C triangle test. les presented were (R, R, V) and (V, V, I board of POLA Chemical Industries, Inc

 Loc2 emissions from manufacturing lated if the heating process was no lo lying Used gas volume (Nm³) and emist langer 2) The CO