

### Core-Shell형 부직포 접착 바인더의 제조와 물성에 관한 연구

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Core-shell composite particles of organic/organic were polymerized by using monomers such as methyl methacrylate(MMA), styrene(St), and ethyl acrylate(EA) in the presence of sodium dodecyl benzene sulfonate (SDBS) below critical micelle concentration(CMC) changing concentration, kind of initiators, emulsifiers, addition method of monomers and speed of agitation.

In the PMMA/PSt and PSt/PMMA core-shell polymerization, to suppress the generation of new particles and to minimize the coagulation during the shell polymerization, the optimum conditions were  $1.45 \times 10^{-5} \text{mol/L}$  and  $2.91 \times 10^{-5} \text{mol/L}$  at concentration of SDBS respectively. The optimum concentration of the other initiator was  $1.58 \times 10^{-3} \text{mol/L}$  of ammonium persulfate(APS) for core polymerization and  $4.0 \times 10^{-4} \text{mol/L}$  of APS for shell polymerization.