

Preparation of hydrophilic coating film using colloidal silica

김태형, 김우진, 이소영, 김현준, 송기창[†]

건양대학교

(songkc@konyang.ac.kr[†])

Since general plastics have hydrophobicity, water droplets are formed and stayed on the surface, resulting in fogging that reduce transparency of substrate. In the fields of agriculture and optics, to prevent this phenomenon, the surface is modified to be hydrophilic and covered by hydrophilic coating layer.

In this study, an organic-inorganic hybrid coating solution was prepared using colloidal silica and a silane coupling agent. At this time, the influence of the manufacturing parameters on the coating solution was investigated.