

## Study on Optical Properties of anti-glare hard coating by UV curing

윤동신<sup>1,2</sup>, 김남훈<sup>3</sup>, 유중환<sup>1,\*</sup>

<sup>1</sup>요업(세라믹)기술원; <sup>2</sup>고려대학교 화학과; <sup>3</sup>(주) 대하맨텍  
(jwyoo@kicet.re.kr\*)

Study on anti-static/anti-glare(AS/AG) hard coating films are quickly increased by researcher because recently display such as LCD, PDP, and cellular phone need that film. In this study, we used various fillers like silica sphere, hollow silica sphere, and polystyrene latex to control diffused reflection in coating solution and measured their optical properties such as transmittance, haze, and gloss. The characterization of coated film by SEM gives different particle distribution depending upon filler type. Optical properties can be explained based on particle distribution in film. Also, surface resistance was examined by adding conductive powder and polymer with different loading amounts to coating solution.