

Plasma Treatment Effect of ITO Surface for Organic Light Emitting Layer formed by Poly (N-vinyl carbazole) and fac-tris(2-phenylpyridine)iridium

Hyemi Lee, Aran Kim, Jooyeon Lee, HeeyeopChae*

Department of Chemical Engineering, Sungkyunkwan University

Poly (N-vinyl carbazole) (PVK), which is green emitting material, was printed by gravure printing technology for polymer light emitting diode (PLED). To control the thickness and roughness of PVK organic film, multi-printing technique and post-treatment were employed. Multi-printing is employed to increase thickness of organic films (1, 3, 5, and 7 times printing). The post-treatment adopted in this work is annealing and dry process at 210 °C after printing PVK film. Thereby, the results, which are organic layer formation by multi-printing and post-treatment, are compared with the literature results.