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The electrical and optical properties of high sheet resistance ITO films deposited by double erosion MSS

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High sheet resistance indium tin oxide (ITO) films were deposited on the large area glass substrate by double erosion in-line magnetron sputtering system with deposition conditions such as the DC power, ratio of $\text{In}_2\text{O}_3/\text{SnO}_2$, working pressure, thickness and substrate temperature. The electrical and optical properties of ITO films have been characterized by the Dektak surface profiler, XRD, SEM, optical transmittance and sheet resistance measurements. In this work, we have investigated the correlation between deposition conditions and the electrical and optical properties of ITO films deposited on the large area glass substrate.