

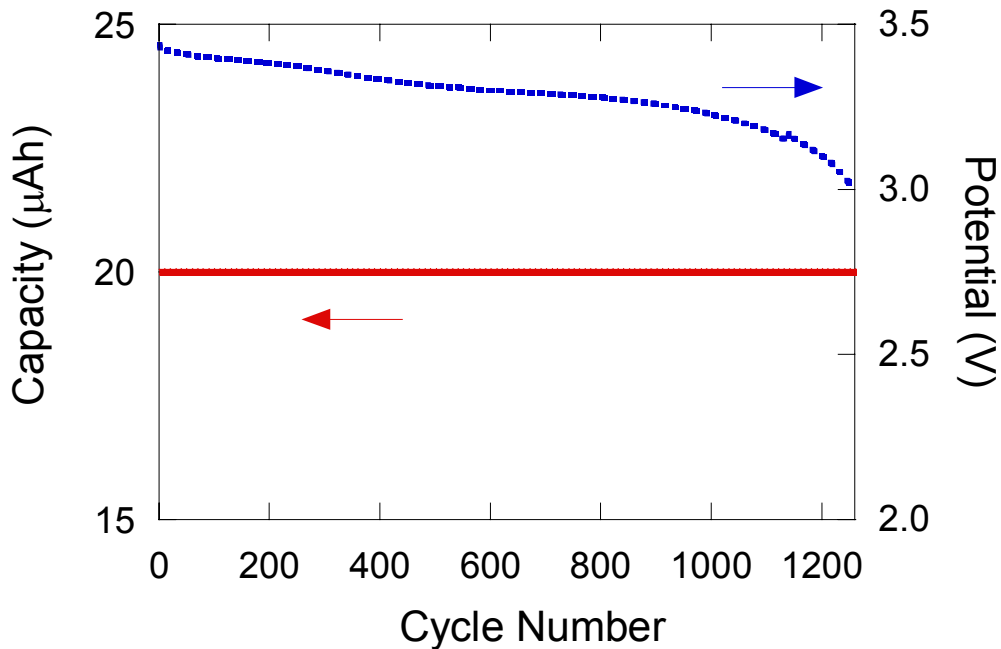
Thin Film Lithium-Ion Batteries

Constant Capacity Cycle Testing of ORLI.0.5.CL Batteries

Test Procedure

- Charge at $i = 50 \mu\text{A}$ to 3.8 V and hold potential fixed until $i \leq 1.5 \mu\text{A}$
- Discharge at $i = 20 \mu\text{A}$ until $q = 20 \mu\text{Ah}$; stop if cell potential $\leq 2.5 \text{ V}$

The discharge capacity of $20 \mu\text{Ah}$ is 32 % of the average initial (as-prepared) capacity of the batteries discharged from 3.95 V to 2 V at $20 \mu\text{A}$. Tests were conducted at 37°C in ambient air.



Discharge capacity (red) and cell potential (blue) at the end of discharge half-cycles for an ORLI.0.5.CL series 52D battery. (Coulombic efficiency = 100 %.)