Supporting Information

Laminated Graphene Films for Flexible Transparent Thin Film Encapsulation

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**Figure S1.** Schematic of Ca oxidation test sample. Ca films (200 nm) with an area of $1.2 \times 1.2$ cm were deposited on patterned Al electrodes (100 nm) on glass substrates.

**Figure S2.** The WVTR values (left y axis) and lag times (right y axis) vs. several encapsulants.
Figure S3. (a) Atomic force microscopy (AFM) and (b) optical microscope images of single-layer graphene surface that has several defects.