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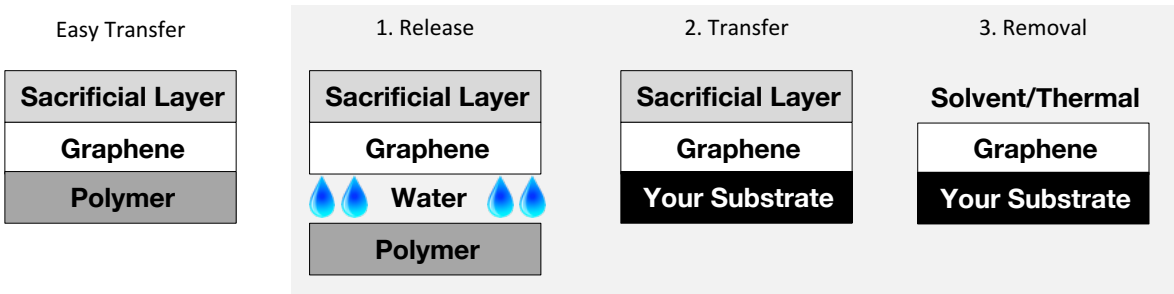
User Instructions

Monolayer Graphene film “Easy Transfer”

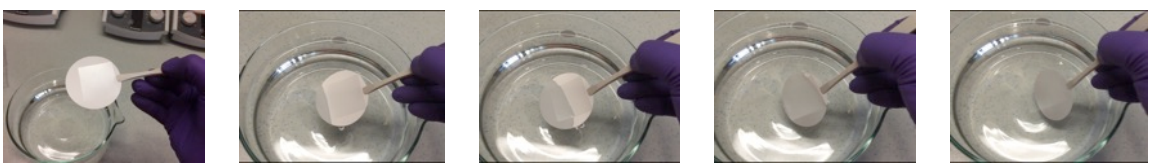
This document will guide you through the easiest way to transfer graphene onto any compatible substrate

Graphene Transfer Procedure in 3 simple steps



1. Release

Put the sample on deionized water slowly (If the sample has been stored for a while we recommend to place the Easy Transfer on water and them do the release) while the sacrificial layer/graphene is detached from the support film. Once the sacrificial layer/graphene is floating remove the polymer film.



2. Transfer

The sacrificial layer/graphene will be floating in the water. To deposit it onto the desired substrate, introduce the substrate into the deionized water and fish the sacrificial layer/graphene from below. We suggest to tilt the substrate 45º. Take the sacrificial layer/graphene/substrate out and let it dry 30 minutes in air. Then we recommend to anneal the samples in a hot plate at 150C for 1h. Finally, before the removal of the sacrificial layer, store it under vacuum for at least 24h to avoid detachment of the graphene from your substrate.

3. Sacrificial layer Removal

To remove the sacrificial layer two methods can be used:

- **Solvents**: Dip the sacrificial layer/graphene/substrate in acetone for 1h, then into iso-propyl alcohol for another 1h and blow the sample with N_2 to dry it.
- **Thermal treatment**: Put the sacrificial layer/graphene/substrate into an oven and heat the sample at 450C in inert atmosphere for 2h.