



Technical Data Sheet

ACS Material Graphene Film – Super Paper

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1. Preparation Method

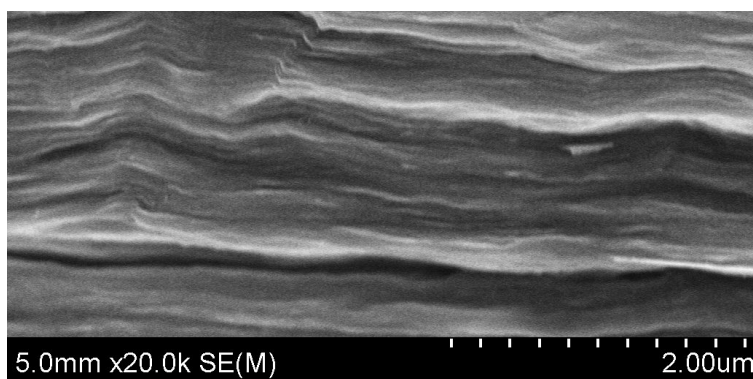
Modified Hummer's Method, Direct Flow, Chemical Reduction

2. Characterizations

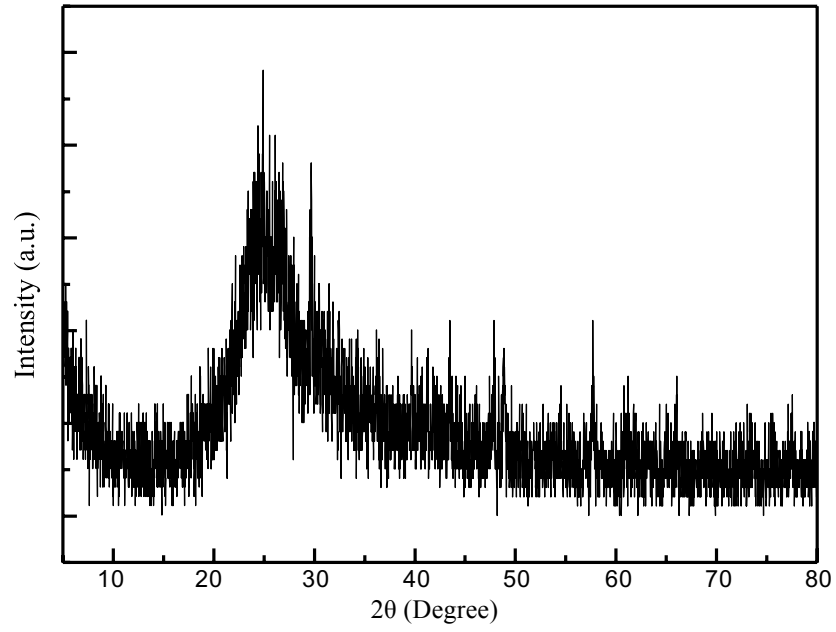
Color:	Yellow or Brown
Size:	40 mm
Thickness:	20 μm
Electrical Conductivity:	2×10^3 S/m
Tensile modulus:	> 10 GPa
High Thermal Conductivity:	>1000 W/m·K
Solubility:	Water insoluble



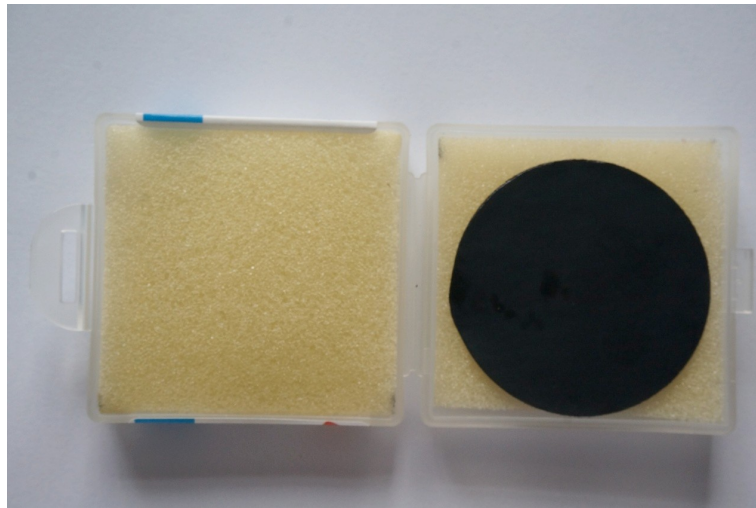
Photo of ACS Material Flexible Graphene Film – Super Paper (Flat, round, $\Phi=40\text{mm}$)



Typical SEM Image of ACS Material Graphene Film



XRD Analysis of ACS Material Graphene Film – Super Paper



Packaging Image of ACS Material Graphene Film – Super Paper

3. Application Fields

- 1) Preparation of graphene
- 2) Solar energy
- 3) Graphene semiconductor chips
- 4) Conductive graphene film
- 5) Graphene computer memory
- 6) Biomaterials
- 7) Transparent conductive coatings

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