Technical Data Sheet

ACS Material Graphene Nanoplatelets (1-2nm)

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Contact Information:

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Revision: 080322

1. Preparation Method

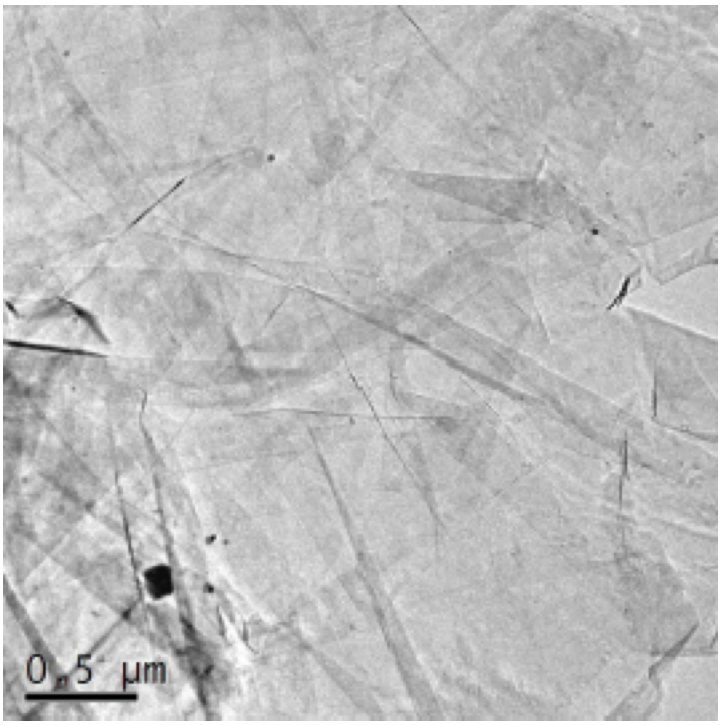
Ultrasonic exfoliation method

2. Characterizations

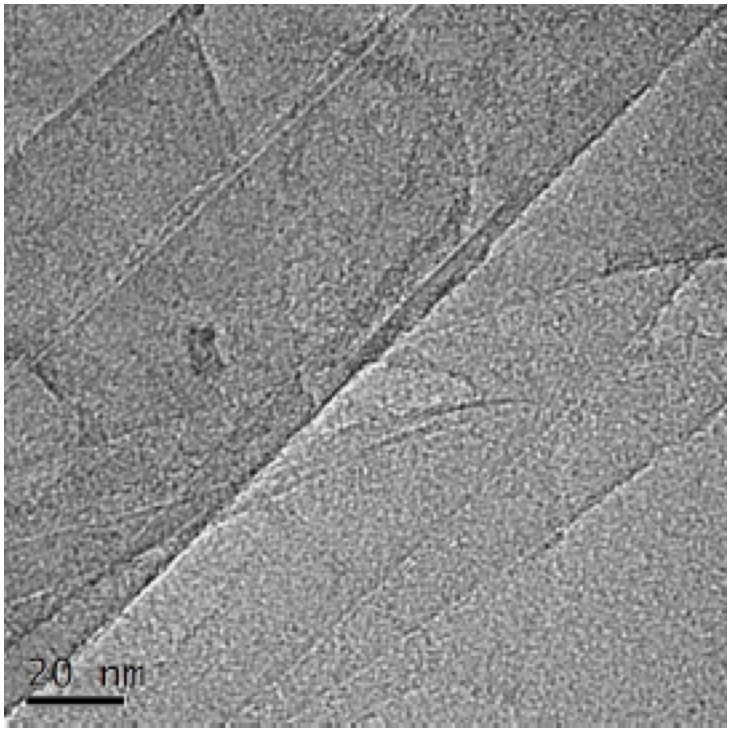
Thickness:	~2 nm
Flake diameter:	2-3 μm
Purity:	98%
Electrical conductivity:	400~1000 S/cm

3. Storage Conditions

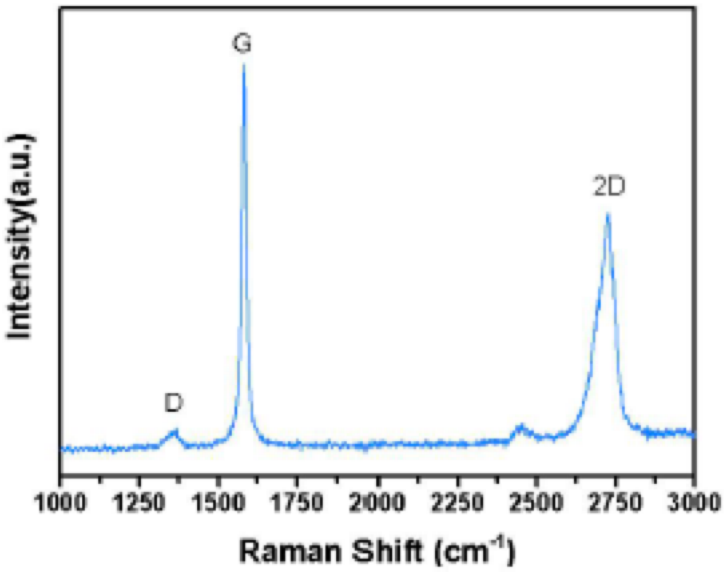
Sealed, avoid light, and keep at normal temperature. Expiry date: Six months before unsealing.



Typical SEM Image of ACS Material Graphene Nanoplatelets (1-2nm)



Typical SEM Image of ACS Material Graphene Nanoplatelets (1-2nm)



Typical Raman Image of ACS Material Graphene Nanoplatelets (1-2nm)

Applications

- New energy battery, antistatic, heat elimination, improve mechanical strength, conductive composites, coating modifiers, basic physics research, graphene transistors, electronic chips, antenna materials, aerospace etc.

Application Instruction

- Mix Graphene nanoplatelets with the target polymer using a double-roller, banburymixer, twin screw extruder or other mixer commonly used in the plastics industry. For better dispersion of the product powder in the target polymer matrix, some surface modifiers, such as silane coupling agent, titanate coupling agent or aluminate coupling agent, etc are recommended to use before mixing the powder with plastics resin.

Attention

- The effectiveness of modification depends very much on the type and the amount of surface modifiers used. We would be delighted to speak with you about what works best for your application. Please call (US) (888)-742-0534