Graphene Oxide for Packaging Solutions

Why Our Derivative Outperforms Conventional Graphene

Solving the problems that prevent commercial viability

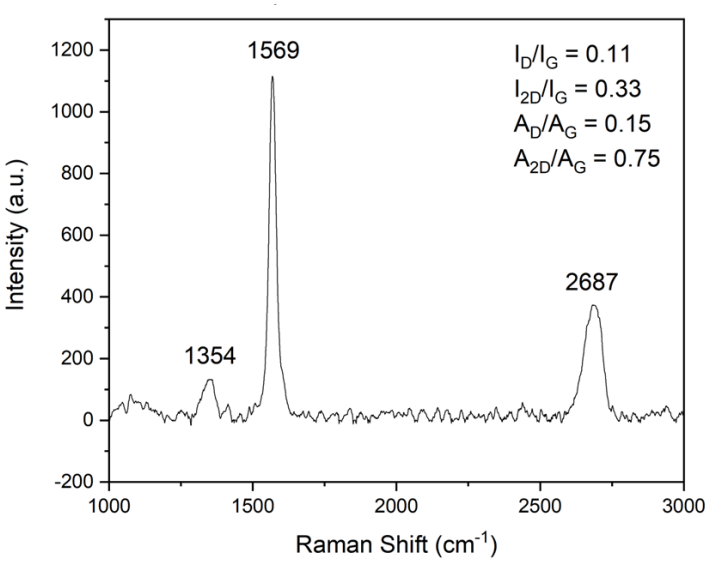
Our Graphene Oxide

- Dispersion: Simple mechanical stirring
- Loading: 0.5-1%
- Defects: Minimal—controlled synthesis
- Stability: Zero re-agglomeration
- Cost: 3-5x lower material usage

Conventional Graphene

- Dispersion: Hours of probe sonication
- Loading: 3-5%
- Defects: High—inconsistent quality
- Stability: Re-agglomerates during storage
- Cost: Expensive, excessive loading

Raman Characterization of Our Derivative:



Technical Specification of Base Material

Specific Surface Area (BET)	~250-350 m2/g
Thickness	1-5 nm
Odour	Odourless
Solubility	Insoluble
Dispersibility	D.I Water, DMF, DMSO, NMP