

Graphenoil

Aminated Graphene Oxide (fGO)

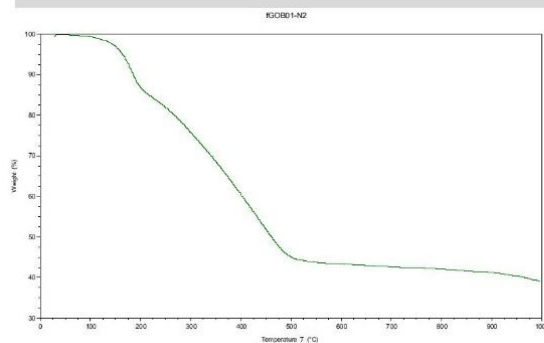
Properties

Form	Powder
Amine	Dodecyl amine
Color	Black
Odor	Odorless
Particle size (laser diffraction)	D90: 38.5-44.5 μm
	D50: 15.5-16.8 μm
	D10: 4.8-5.8 μm
Dispersability	low concentrations (<0.1mg/mL) in NMP, DMSO, DMF
Apparent density (g/mL)	0,07-0,10
Humidity (TGA)	<1%

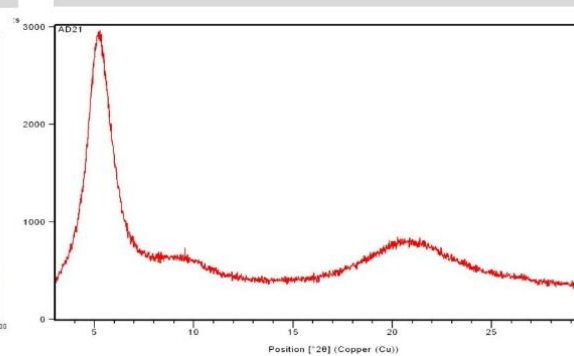
Elemental Analysis

Carbon	69-74%
Hydrogen	6-9%
Nitrogen	3-5%
Sulfur	0-1%
Oxygen	12-17%

TGA



XRD



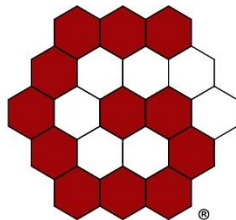
Description: Amine Functionalized Graphene Oxide Powder. The amine groups of the aminated graphene oxide improves its dispersibility in different polymer matrices (epoxy resins, polyester resins, polyols among others). The key to improving the mechanical properties is the obtention of a homogeneous dispersion of the filler in the matrix and it has been proven in the literature that the amine functionalization is a successful approach to achieve it.

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