

# Reduced Graphene Oxide (rGO)

## Properties

Form	Powder
Reduction method	Chemically reduced
Sheet dimension	Variable
Color	Black
Odor	Odorless
Solubility	Insoluble
Dispersability	low concentrations (<0.1mg/mL) in NMP, DMSO, DMF
Humidity (Karl Fisher, TGA)	3.7–4.2%
Electrical conductivity	≈ 667 S/m (*)
BET surface area	422.69–499.85 m <sup>2</sup> /g
Particle size (z–sizer in NMP at 0,1 mg/mL):	260–295nm
Density	1,91 g/cm <sup>3</sup>

(\*) Measured in a 20nm thickness film

## Elemental Analysis

Carbon	77–87%
Hydrogen	0–1%
Nitrogen	0–1%
Sulfur	0%
Oxygen	13–22%

