

PRODUCT : rGO-V50

General Characteristics : Chemically Synthesized Graphene

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## PARAMETER

## SPECIFICATIONS

VISUAL:

Fluffy, Light Powder

COLOR:

Match Standard, Black

SPECIFIC SURFACE AREA:

500 m<sup>2</sup>/g – 700 m<sup>2</sup>/g

Electrical Conductivity:

Ave. 5 S/cm (as powder resistance)

CARBON BY WT%:

78% – 82%

OXYGEN BY WT%:

10% – 15%

SULFUR BY WT%:

< 0~0.5%

ASH BY WT%:

≤ 4.0%

## PHYSICAL SIZES:

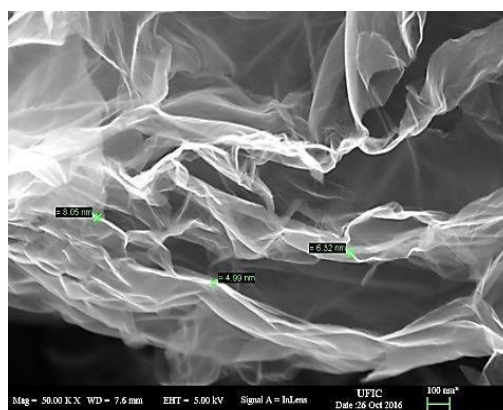
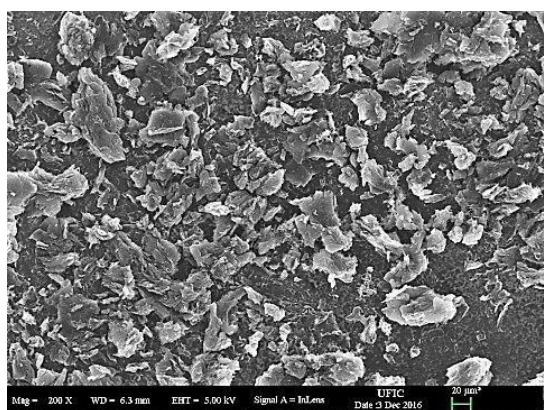
AVERAGE LATERAL DIMENSION (x & y)

≥ 30 um

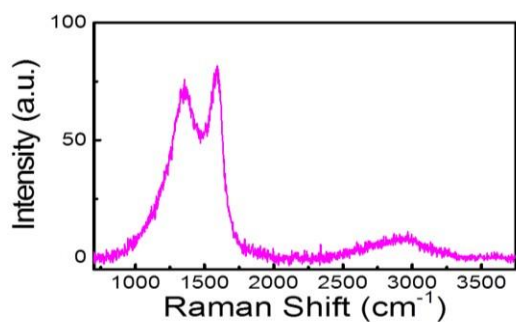
AVERAGE THROUGH-PLANE DIMENSION (z)

~ 1.0 – 1.4 nm (as estimated by BET)

## SEM Images

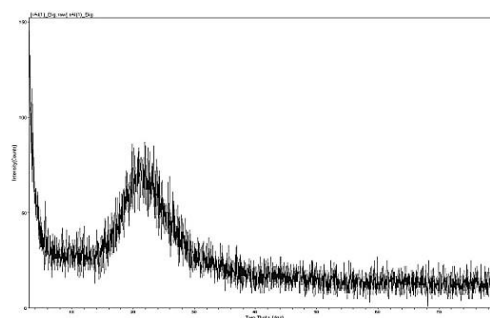


## Raman Results

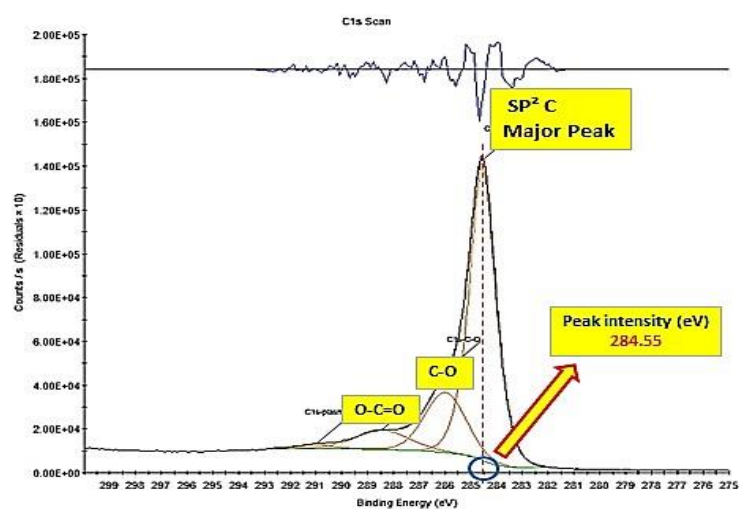


D/G Intensity Ratio: 0.89

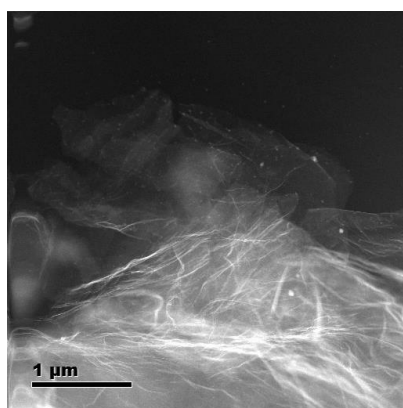
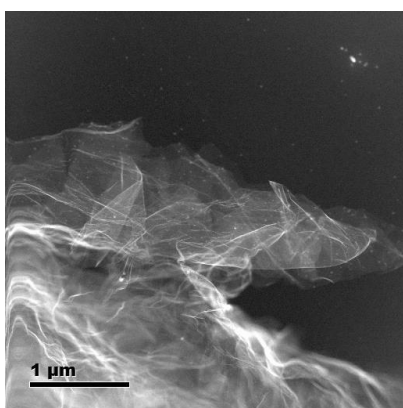
## XRD Data



## XPS Data



## TEM Images



Performed by an accredited Outside Test Facility

Data Written: 05/01/2015

Revision Date: 23/08/2017