

PRODUCT : GO-V20

General Characteristics : Chemically Synthesized Graphene Oxide

**PARAMETER**

**SPECIFICATIONS**

VISUAL:

Fluffy, Light Powder

COLOR:

Yellow or Dark Brown

SPECIFIC SURFACE AREA:

–

Electrical Conductivity:

Insulator

CARBON BY WT%:

50% – 55%

OXYGEN BY WT%:

35.0% – 47.0%

SULFUR BY WT%:

< 3.0%

ASH BY WT%:

≤ 1.0%

**PHYSICAL SIZES:**

AVERAGE LATERAL DIMENSION (x & y)

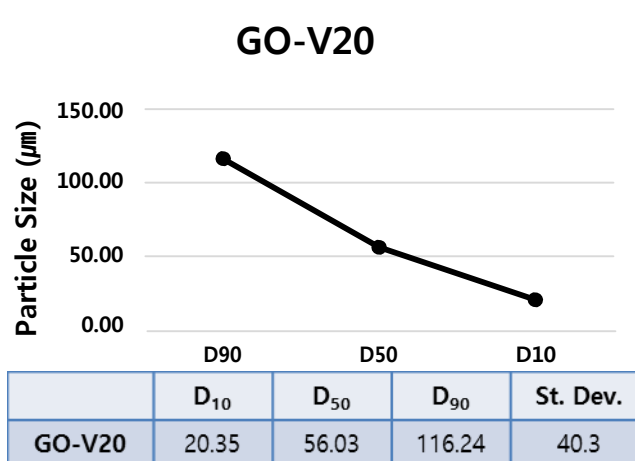
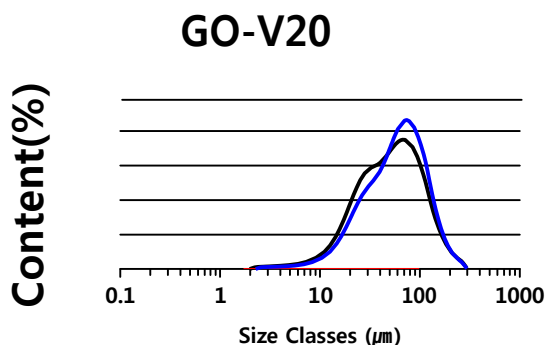
≥ 20 um

AVERAGE THROUGH-PLANE DIMENSION (z)

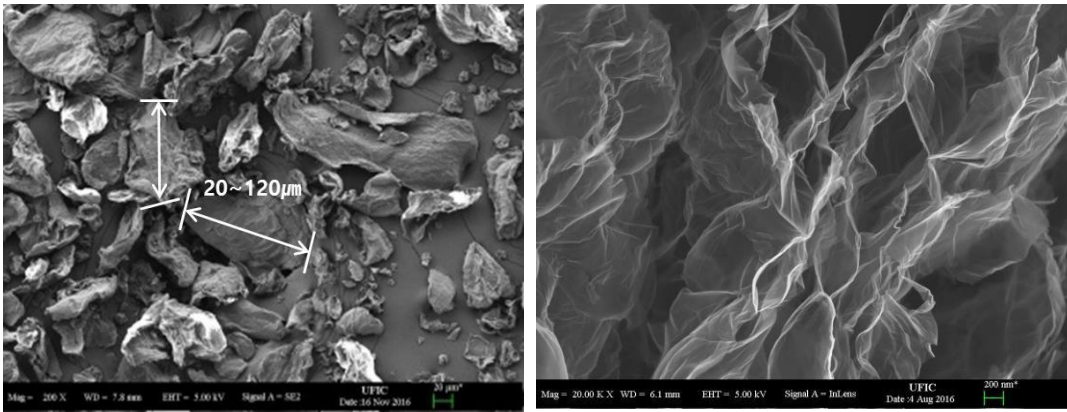
~ 1.1 – 1.3 nm (as analyzed by AFM)

AVERAGE PARTICLE SIZE

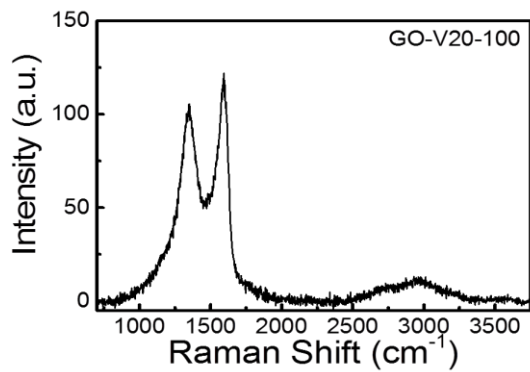
D<sub>50</sub>= 56.03 (Measured by PSA)



## SEM Images

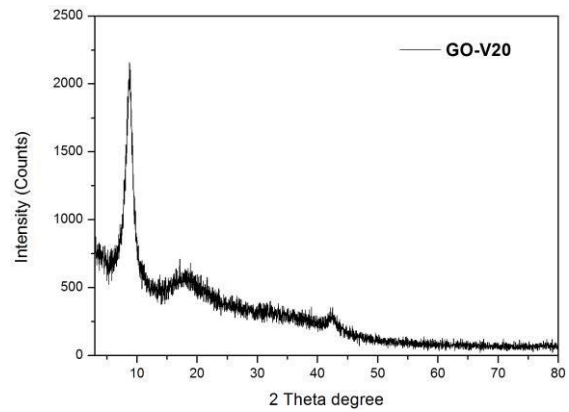


## Raman Results

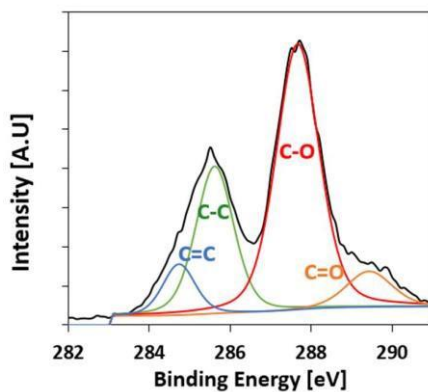


D/G Intensity Ratio: 0.86

## XRD Data



## XPS Data



Performed by an accredited Outside Test Facility

Data Written: 06/05/2016

Revision Date: 26/01/2017