

Chinese Firms to launch First Mass Produced 15" Single-layer Graphene Film

✘ On March 20, a Chinese firm, Chongqing Morsh Technology Co., Ltd. signed a strategic cooperation agreement with a high-performance OGS (One-glass solution) manufacturer, Guangdong Zhengyang Technology Incorporated Company. Under the deal, Chongqing Morsh Technology Co., Ltd received an order to produce Graphene-based transparent conducting film (TCFs) products, which will initially number 10 million pieces per year, such that the total for the next five years. This means that China's commercial applications for graphene will officially enter the consumer electronics industry market at the end of next year, including such widespread consumer goods as the mobile phones' touch screens on mobile phones and PC's, to mention some.

Graphene-based transparent conductive films (TCFs), which are anticipated to replace traditional indium doped tin oxide (ITO) films in future bendable electronic and optoelectronic devices, can also be fabricated by reducing GO films in a cost-effective manner, since GO have exceptionally low cost and can easily be assembled into large-area films by simple solution processes.

On January 22, 2013, China's Chongqing Institute of Green and Intelligent Technology of the Chinese Academy of Sciences announced that they have succeeded in making their first 15-inch graphene layer along with a seven-inch graphene touch screen. In the past two months, Chongqing Institute has not only acquired over 210 million Yuan in technology transfer fees from Shanghai Nanjiang, but also formally signed a joint venture agreement with Shanghai Nanjiang (Group) on February 26, as the industrial investment platform for graphene.

Chongqing Morsh Technology Co. Ltd will build the world's first mass production of 15-inch single-layer graphene film production line in Chongqing city.

"This will build the world's first mass scale annual output production of 15-inch single-layer graphene film, striving to achieve industrialization within a year in Chongqing," said Wang Dong, CEO of Shanghai NanJiang (Group) Co., Ltd.

Last year, Shanghai NanJiang (Group) invested 200 million Yuan to buy registered graphene industrialization technology from the Ningbo Institute of Materials Technology and Engineering (NIMTE). This led to the formation of a new enterprise, co-sponsored by the NIMTE and the Nanjiang, named Ningbo Morsh Technology Co., Ltd, launching the world's first graphene production line with an annual capacity of 300 tons in Ningbo, Zhejiang Province, which enter production on August, 2013. This production will be widely used in the chemical industry and energy sectors; moreover, Chongqing Morsh's production line will be widely used in the electronics industry and IT sectors, according to the company. Chinese firms are scrambling to enter the graphene market as they perceive this material to have very strong market prospects