

Samsung Claims Major Breakthrough in Flexible Display Tech

Andrew Berg

Samsung believes it has found a way to make flexible displays and wearables using a substance called graphene.

In a press release, Samsung Electronics said it has discovered a breakthrough synthesis method to speed the commercialization of graphene, which it said is ideally suited for electronic devices.

Samsung Advanced Institute of Technology (SAIT) worked in partnership with Sungkyunkwan University on the project. Samsung wasn't shy about calling it one of "the most significant breakthroughs in graphene research in history."

According to Samsung, Graphene has one hundred times greater electron mobility than silicon, the most widely used material in semiconductors today. The company also claims it is more durable than steel and has high heat conductivity as well as flexibility, which makes it suitable for flexible displays.

Samsung said its method of synthesizing graphene sidesteps the problems associated with other methods, which deteriorated the electric and mechanical properties of the material, limiting its application range and making it difficult to commercialize.

The results of the research will be published in the April 4 issue of Science Magazine and ScienceExpress.

Check out the Nokia concept video below for a look at just how far some designers would like to take flexible display technology:

Source URL (retrieved on 01/26/2015 - 3:29pm):

<http://www.wirelessweek.com/news/2014/04/samsung-claims-major-breakthrough-flexible-display-tech>