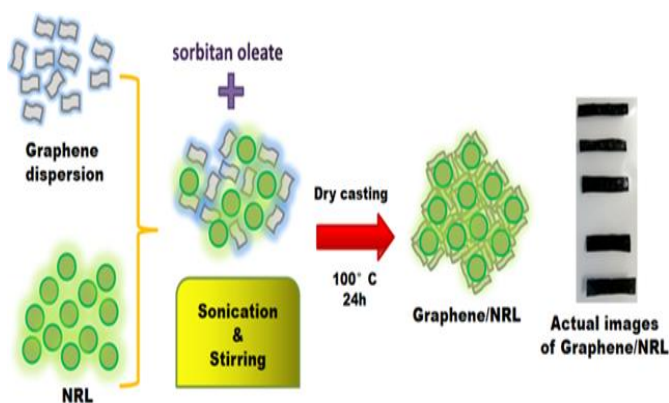


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METHOD OF PREPARING GRAPHENE-DISPERSED RUBBER COMPOSITES



▶ MORE INFORMATION

MEGA-TREND

- Chemicals and Materials
- Measurement and Instrumentation

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 3 (Proof of Concept)

PATENT/ GRANTED NUMBER

- PI 2020002766

▶ TECHNOLOGY OVERVIEW

The present invention discloses a method of preparing graphene-rubber composites. The composite is prepared by mixing graphene powder, water and N-Methyl pyrrolidone into a graphene dispersion. The dispersion is agitated with ultrasonic waves. Rubber is mixed to the dispersion until a homogenous composite is obtained. The composite is added with emulsifier and dry casted. The rubber composite has reasonable tensile strength and flexibility expected of a rubber film. The rubber composite is adapted to be used as a flexible film that can be used on a flexible surface, such as hand, to measure pressure.

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