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Technology & Applications

Natural rubber is originally derived from latex produced from tree and exhibits high properties in resilience, tensile strength and tear resistance after vulcanization as well as it is more environmentally friendly than the synthetic rubber. Nevertheless, the mechanical properties of the natural rubber still can be further enhanced through addition of fillers. Among the conventional fillers, graphene has attracted 20 tremendous attention due to its high specific area, mechanical properties and gas impermeability.

Advantages

- Improved method of preparing a graphene-containing natural rubber masterbatch
- Rubber compound with enhanced mechanical properties.

Intellectual Property

Patent: PI2021004860 A Method of Preparing Graphene-containing Natural Rubber Masterbatch

Market Size

Inventors

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Technology Partners

- GIIB Rubber Compound Sdn Bhd
- AZR Consulting Sdn Bhd

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