

6th November 2025

Initial PT Alasmas order fulfilled marking first industrial scale TPU shipment

Highlights

- Order for 500kg of PureGRAPH® 10 Masterbatch fulfilled and shipped in preparation for new KRUSHERS® work boot range production in Indonesia
- Additional two tonnes of PureGRAPH® 10 Masterbatch to be manufactured and supplied under commercial partnership with manufacturer PT Alasmas Berkat Utama
- Pelletized masterbatch produced by compounding partner Duromer in Vietnam requires no technology or processing changes
- First industrial-scale PureGRAPH® Masterbatch order specific to TPUs de-risks integration for other end users

First Graphene Limited (ASX:FGR; “First Graphene” or “the Company”) is pleased to announce it has fulfilled the first significant order of graphene enhanced thermoplastic polyurethane (“TPU”) material, under its commercial supply agreement with PT Alasmas Berkat Utama (“PT Alasmas”).

Production of 500kg of PureGRAPH® 10 Masterbatch material was completed last week by Duromer Products (“Duromer”) in Vietnam (see Figure 1) and is currently being shipped to Indonesia.

It represents the first order of approximately 2.5 tonnes of PureGRAPH® 10 Masterbatch as part of a commercial supply agreement struck between the Company and PT Alasmas in May 2025.

The PureGRAPH® Masterbatch will be incorporated into the soles of a new range of KRUSHERS® brand work boots, destined for the Southeast Asian market.

It is anticipated future orders could be extended to other work and safety boot ranges, resulting in improved sole durability in harsh workplace conditions such as the mining and construction sectors.

First Graphene Managing Director and CEO Michael Bell said:

“Completion of the initial 20% of our supply agreement with PT Alasmas is a major achievement for First Graphene and we’re very pleased with the seamless application of our PureGRAPH® 10 Masterbatch.

This demonstrates the ease of integrating PureGRAPH® non-intrusively into common, everyday TPU-based products at scale, using existing processing and production technologies.

For industries using TPUs in the manufacture of their products, this success story de-risks use of our graphene additives and enables greater adoption at larger scale, without trial or pilot barriers.

We look forward to progressing the next stage of PureGRAPH® 10 Masterbatch supply to PT Alasmas and working with others in the market to customise additives to suit their needs.”



Figure 1: Pelletized PureGRAPH® 10 Masterbatch compounded by Duromer before shipping to PT Alasmas in Indonesia.

Non-invasive TPUs containing graphene improve product durability

Since the supply agreement was struck, compounding partner Duromer has manufactured the PureGRAPH® 10 Masterbatch, which can be seamlessly integrated into the boot production process without the need for additional processing or specialised equipment.

The lightweight pelletized material is easily produced, packaged and handled, with concentrations of graphene easily customised to suit specific applications.

Other graphene-ready applications that utilise TPU material include screen media and conveyor components used in mining and ore processing, as well as a range of sporting apparel and Personal Protective Equipment (“PPE”) like gloves and safety helmets.

-Ends-

This release has been approved for release by the Chairman.

For further information please contact:

Investors

Michael Bell
Managing Director and CEO
First Graphene Limited
michael.bell@firstgraphene.net
+61 1300 660 448

Media

Emily Evans
Media and Content Manager
SPOKE.
emily@hellospoke.com.au
+61 401 337 959

About First Graphene Ltd (ASX: FGR)

First Graphene Limited is focused on the development of advanced materials to help industry improve. The Company is a leading supplier of graphitic materials and product formulations with a specific commercial focus on large, high-growth global markets including cement and concrete; composites and plastics; coatings, adhesives, sealants and elastomers (CASE); and energy storage applications.

One of the key outcomes these advanced materials offer is the reduction of carbon dioxide emissions, whether directly through a reduction in output of these harmful greenhouse gases or lower energy usage requirements in manufacturing, or indirectly due to enhanced performance characteristics and extending the usable life of products.

First Graphene has a robust manufacturing platform based on captive and abundant supply of high-purity raw materials, and readily scalable technologies to meet growing market demand. As well as being the world's leading supplier of its own high performance PureGRAPH[®] graphene product range, the Company works with multiple industry partners around the world as a supplier of graphitic materials and partner to research, develop, test and facilitate the commercial marketing of a wide range of sector-specific chemical solutions.

First Graphene Ltd is publicly listed in Australia (ASX:FGR) and has a primary manufacturing base in Henderson, near Perth, WA. The Company is incorporated in the UK as First Graphene (UK) Ltd where it has a strong R&D capability.