



## **First Graphene Ltd and Foster Plastics Industries to Commence Testing on EVA Products**

### **HIGHLIGHTS**

- Supply of PureGRAPH® ethylene-vinyl acetate (EVA) masterbatch for PVC products.
- Foster Plastics Industries Pty Ltd is the leading manufacturer and supplier of flexible, rigid and co-extrusions.
- PureGRAPH® EVA master batch carrier will target the manufacture and testing of solar tubes for heat transfer to water, tensile strength, compression strength and longevity in UV exposure.
- Master batches have been despatched for manufacturing and testing to commence immediately.

Advanced materials company, First Graphene Limited ("FGR" or "the Company") (ASX: FGR) is pleased to advise Foster Plastics Industries Pty Ltd ("Foster"), an Australian versatile extrusion company, is collaborating with FGR to develop PureGRAPH® enhanced EVA materials for use in Foster's range of solar tubes and plastic extrusion systems.

The PureGRAPH®10 EVA masterbatch loaded with 30% graphene will be drawn down to the desired ultimate concentration of 0.25% to 1% within Foster's proprietary black nitrile/PVC compound.

EVA is a versatile master-batching material which is used to incorporate functional additives into various compounds, in this case PVC. Significant earlier work in collaboration with the Graphene Engineering Innovation Centre (GEIC), UK, demonstrated that PureGRAPH® can be effectively loaded into EVA even at these high levels of 30% weight per weight basis.

The incorporation of high performing PureGRAPH® graphene will seek to improve solar tubes for water heat conductivity, tensile strength, compression strength and longevity in UV exposure.

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### **ASX Symbol**

FGR  
FGROC  
Frankfurt Stock Exchange  
FSE:M11

The successful incorporation of PureGRAPH<sup>®</sup> into Foster's materials at their Yatala factory in Queensland will enable Fosters to evaluate the products within its business lines which will benefit from PureGRAPH<sup>®</sup>. FGR will then be able to determine the potential revenue implications and finalise the commercial arrangement for the supply of PureGRAPH<sup>®</sup>. This collaboration does not create a legally binding agreement between either company. PureGRAPH<sup>®</sup> EVA master batch will be provided to Foster's materials at their Yatala factory over the next two weeks. FGR will keep the market informed as the test work progresses.

### **COVID-19 Update**

During the recent lock-down period in Australia, FGR's Henderson facility has continued to be operational. Recently announced developments, such as Hexcyl Systems, planarTECH and now Foster Plastics, have progressed during this period and have been supported by technical inputs from the FGR Manchester employees, despite them not having onsite access to the GEIC due to continued lockdown in the United Kingdom.

Several customers, and potential customers, have moved to recommence operations over the last week and we expect further customer interaction to increase as restrictions are lifted.

Craig McGuckin, Managing Director for First Graphene Ltd, said, *"Working with Foster is a further example demonstrating the benefits PureGRAPH<sup>®</sup> may provide to material enhancement. It is also indicative of the industry diversity to which PureGRAPH<sup>®</sup> products can be applied"*.

Glen Bracken, Managing Director for Foster Plastics Industries Pty Ltd, said, *"We are looking forward to working with First Graphene in testing the incorporation of PureGRAPH<sup>®</sup>, initially into our solar tube line of products."*

### **About First Graphene Ltd (ASX: FGR)**

*First Graphene Ltd. is the leading supplier of high-performing, graphene products. The company has a robust manufacturing platform based upon captive supply of high-purity raw materials and an established 100 tonne/year graphene production capacity. Commercial applications are now being progressed in composites, elastomers, fire retardancy, construction and energy storage.*

*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. and is a Tier 1 partner at the Graphene Engineering and Innovation Centre (GEIC), Manchester, UK.*

### **About Fosters Plastics Industries Pty Ltd**

*Foster Plastics Industries is Australia's most versatile Extrusion Company. The company specialises in the manufacture of glazing gaskets, seals and profiles used in windows, shower screens, garage doors and wardrobe industries. Other areas of expertise include profile extrusions used in the Automotive & Marine, Shop fittings, Caravans, Flooring Accessories, and Solar Tube pool heating Industries.*

### **PureGRAPH® Range of Products**

*PureGRAPH® graphene powders are available in tonnage volumes with lateral platelet sizes of 20µm, 10µm and 5µm. The products are high performing additives, characterised by their high quality and ease of use.*

*With authority of the board, this announcement has been authorised for release, by  
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Director, Chief Financial Officer and Company Secretary*

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