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## PureGRAPH® MB-EVA

## Graphene enhanced EVA masterbatch

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### Function

PureGRAPH® MB-EVA is a graphene-loaded carrier masterbatch, designed for blending into elastomer and thermoplastic systems.

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### Description

PureGRAPH® MB-EVA is a graphene enhanced Ethylene-Vinyl Acetate (VA) copolymer masterbatch, which utilises First Graphene's few-layer, high-performing graphene additives.



#### Features and Benefits:

- Easy to incorporate into a range of rubbers and plastics using standard processing techniques.
- Supplied in pellet form as a masterbatch for ease of handling.

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### Typical Applications

This masterbatch is intended for use with elastomers, such as rubber systems and plastics, as well as with thermoplastics. The high Vinyl Acetate content of the base polymer brings softness, flexibility and polarity. The Masterbatch could potentially be compatible with other systems, including resins, waxes, adhesives, oil and bitumen. The addition rate is subject to customer trial and approval.

For more detailed information and recommendations regarding specific application, please contact your First Graphene technical representative.

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### Processing

The masterbatch can be processed in standard equipment.

Temperatures above 230°C should be avoided.

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## Typical Product Parameters

PureGRAPH® MB-EVA	5-30	10-30	20-30	50-30
Graphene particle size ( $D_{V50}^1$ )	5 $\mu\text{m}$	10 $\mu\text{m}$	20 $\mu\text{m}$	50 $\mu\text{m}$
Composition % w/w (Graphene solids in EVA)			30	
Carrier resin		Ethylene-Vinyl Acetate		

## Masterbatch

Vinyl Acetate content (% Wt)	19-21
Melt Index 190°C / 2.16 kg (g/10min)	17-23
Melting point (°C)	83

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<b>Availability &amp; Packaging</b>	Samples: 50g - 500g supplied in screw cap containers Bulk volume: Sealed foil bags
<b>Shelf Life &amp; Storage</b>	It is advised that products are kept sealed and stored in cool, dry conditions.  It is recommended the Masterbatch is dried before use.
<b>Handling Information</b>	Please consult material safety data sheet (MSDS) for additional handling information.

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<sup>1</sup>  $D_{V50}$  volumetric average, measure by a laser diffraction technique.

### LIMITED WARRANTY INFORMATION:

The information contained herein is offered in good faith and is believed to be accurate at the time of printing. This information should not be used as a substitute for your own quality control and/or testing procedures to ensure that our products are safe, effective and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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**Version:** 1/01. Jul 2021

