

ALKAMIX™ ADDITIVE MASTERBATCH

ENGINEERING THERMOPLASTIC

ALKAMIX™ IS A REGISTERED TRADEMARK OF MARPLEX AUSTRALIA PTY. LTD.

ALKAMIX™ MB-SAMBA

ALKAMIX™ MB-SAMBA is a slip masterbatch formulated with Erucamide at a concentration of 2%.

ALKAMIX™ MB-SAMBA can be added to polyethylene during extrusion to reduce the coefficient of friction of films. The level required will vary according to coefficient of friction desired, gauge of film, polymer type (LLDPE, LDPE, etc...) and other factors such as the presence of other additives (including antiblocks, colourants / pigments, etc...). For injection moulded articles, typical addition rates of MB-SAMBA of up to 2.0% are recommended due to the thickness of the moulded article. Higher addition rates may result in problems with printing or label adhesion, or possibly warpage.

The maximum level of addition of ALKAMIX™ MB-SAMBA based on both good manufacturing practice and to ensure conformance to the requirements to the United States Food and Drug Administration Regulations CFR21 is the minimum required to achieve the desired effect. When added to a polyethylene formulation free of any slip additives, the maximum recommended level is 10%. The suitability of finished articles manufactured using this material as a component, and the observance of given limitations, must be verified by the converter for each application to ensure compliance with all relevant regulations. An overall migration limit may apply to the finished article.

| | <u>CONDITIONS</u> | <u>UNITS</u> | <u>TYPICAL VALUES</u> | <u>TESTING METHODS</u> |
|--------------------------------------|-------------------|-------------------|-----------------------|------------------------|
| <u>1. Physical Properties</u> | | | | |
| Density | | g/cm ³ | 0.922 | ASTM D792 |

All test results were obtained using uncoloured material.

Issued: May 2016

Material Safety Data Sheet (MSDS): Code 30530302

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TYPICAL PROCESSING CONDITIONS

ALKAMIX™ MB-SAMBA

The following typical guidelines are offered as initial processing conditions for **ALKAMIX™ MB-SAMBA**. In practice, processing parameters may need to be varied to give commercially acceptable performance in conjunction with optimum physical properties. For specific technical advice on part design or processing conditions, contact the Marplex Technical Service Department.

Recommended maximum processing temperature 200 °C

Comment(s):

- 1 Cleanliness of the dryer, machine hopper and machine screw/barrel/die head assembly are essential for processing ALKAMIX™ MB-SAMBA and producing contamination free product.
- 2 ALKAMIX™ MB-SAMBA is intended for processing with polyethylene and may not be compatible with other polymers
- 3 It is recommended that ALKAMIX™ MB-SAMBA is purged from the extruder with polyethylene before machine shutdown.

Conversions: 1 MPa = 145 psi
= 10.2 kg/cm²
= 10 bar
°C = 5(F-32)/9
1 kN/cm² = 0.65 ton/in²