

ALKAMIX™ ADDITIVE MASTERBATCH

ENGINEERING THERMOPLASTIC

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

ALKAMIX™ MB-6005

ALKAMIX™ MB-6005 is a combined slip and antiblock masterbatch based on a low density polyethylene carrier. It is formulated with slip additive (Erucamide) at a concentration of 8 percent and antiblock additive at a concentration of 25 percent.

ALKAMIX™ MB-6005 can be added to linear low density polyethylene (LLDPE) during extrusion to reduce the film blocking and coefficient of friction. The level required will vary according to the desired properties and the presences of any other additives, however the recommended addition level is between 1 and 2 percent.

The maximum level of addition of ALKAMIX™ MB-6005 based on both good manufacturing practice and to ensure conformance to the requirements to the United States Food and Drug Administration Regulations CFR21 is 2.5% when added to a polyethylene formulation free from any other additives. 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 of Base resin	g/cm ³	0.920	ASTM D1505

All test results were obtained using uncoloured material.

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Material Safety Data Sheet (MSDS): Code 30530302

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TYPICAL PROCESSING CONDITIONS

ALKAMIX™ MB-6005

The following typical guidelines are offered as initial processing conditions for **ALKAMIX™ MB-6005**. 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-6005 and producing contamination free product.
- 2 ALKAMIX™ MB-6005 is intended for processing with polyethylene and may not be compatible with other polymers
- 3 It is recommended that ALKAMIX™ MB-6005 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