

ALKAMIX™ ADDITIVE MASTERBATCH

ENGINEERING THERMOPLASTIC

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

ALKAMIX™ MB-AO300

ALKAMIX™ MB-AO300 is BHT (Butylated Hydroxy Toluene) free antioxidant masterbatch designed to impart thermal processing stability to base grade low density polyethylene during extrusion.

ALKAMIX™ MB-AO300 can be added to base grade low density polyethylene during extrusion to assist in overcoming thermal instability problems. The level required will vary according to the type of extrusion, conditions and polymer used, however the recommended addition level is between 1 and 2 percent.

ALKAMIX™ MB-AO300 can also be used as a shutdown compound to prevent oxidation of polymer left idle in an extruder. As a shutdown compound, it is usually added at concentrations of 30 percent or more to fractional MFI low density polyethylenes.

The maximum level of addition of ALKAMIX™ MB-AO300 based on both good manufacturing practice and to ensure conformance to the requirements to the United States Food and Drug Administration Regulations CFR21 is 4 percent, when added to a polyethylene formulation free of 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-AO300

The following typical guidelines are offered as initial processing conditions for **ALKAMIX™ MB-AO300**. 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-6002 and producing contamination free product.
- 2 ALKAMIX™ MB-AO300 is intended for processing with polyethylene and may not be compatible with other polymers
- 3 It is recommended that ALKAMIX™ MB-AO300 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