

ALKAMIX™ ADDITIVE MASTERBATCH

ENGINEERING THERMOPLASTIC

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

ALKAMIX™ MB-UV815

ALKAMIX™ MB-UV815 is a 20% concentrate of an effective ultra-violet (UV) light stabilizer in polyethylene carrier. The active ingredient is an oligomeric hindered amine light stabilizer (HALS) with low volatility and high resistance to extraction.

ALKAMIX™ MB-UV815 can be added to polyethylene during extrusion to provide protection against the degradative effects of UV radiation (ie during outdoor weathering). The masterbatch is particularly suitable for addition to polyethylene and polypropylenes. The addition level of MB-UV815 will depend on the desired part lifetime and failure criteria, as well as part thickness, exposure conditions and polymer system under consideration.

	<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-UV815

The following typical guidelines are offered as initial processing conditions for **ALKAMIX™ MB-UV815**. 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-UV815 and producing contamination free product.
- 2 ALKAMIX™ MB-UV815 is intended for processing with polyethylene and may not be compatible with other polymers
- 3 It is recommended that ALKAMIX™ MB-UV815 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