

FILLER MASTERBATCH: MN-FL-1014B

PHYSICAL PROPERTIES

Property	Method	Typical Values
Melt Index (190° C, 2.16 kg)	ASTM D1238	0.4 g/10min
Moisture	ASTM D10-7191	<1000 ppm
Bulk Density	ASTM D1895B	1.09 g/cm ³
Density	ASTM D792	1.86 g/cm ³
Calcium Carbonate	ASTM D5630	81 %
Mean Particle Size (D50)	Supplier	1.89
Top Cut (D98)	Supplier	7

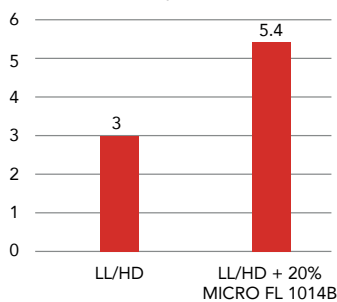
This product is an economical Masterbatch based on very fine particle size coated calcium carbonate with LLDPE carrier which contributes to extrusion process stability and improved output.

It is also recommended for PE colored films for its anti-blocking properties and hiding power.

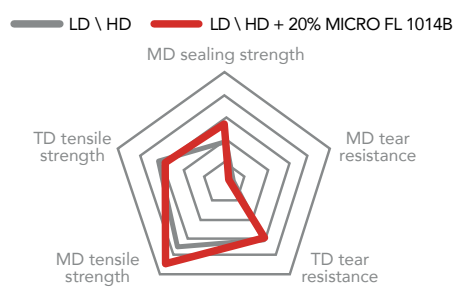
Mainly designed to be used in blown film and blow molding

FEATURES

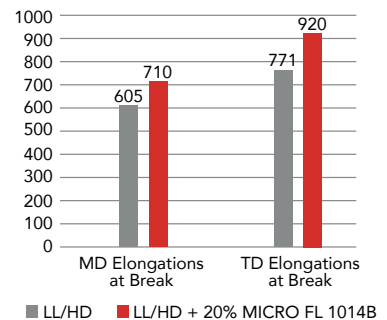
Dart Drop Impact Strength of Heavy Duty Bag blends containing different CaCO₃ Masterbatches at 20% loading



Tensile and Tear Resistance properties of Heavy Duty Bag blends containing different CaCO₃ Masterbatches at 20% loading



% MD/TD Elongations at Break of Heavy Duty Bag blends containing different CaCO₃ Masterbatches at 20% loading.



BENEFITS

- Higher output rate.
- Perception of same film thickness at reduced gauge due its rough surface.
- Faster bubble cooling.
- Lower production blend cost.
- COF reduction-higher speed of converting on automatic lines.
- Ensuring matt surface wherever required for printing properties or for UV light diffusion with agricultural films.

OTHER GRADE UNDER THE SAME FAMILY

Property	Method	MICRO FL 1014 5B	MICRO FL 1014 5B75	MICRO FL 1014 70B	MICRO FL 1014 708B	MICRO FL 1014 808B	MICRO FL 1014 B7	MICRO FL 1014 BD7
Melt Index (190° C, 2.16 Kg)	ASTM D1238	0.35 g/10min	0.3 g/10min	0.5 g/10min	2 g/10min	0.4 g/10min	0.1 g/10min	0.1 g/10min
Bulk Density	ASTM D1895B	1.07 g/cm ³	1 g/cm ³	1 g/cm ³	1 g/cm ³	1.2 g/cm ³	1.14 g/cm ³	1.14 g/cm ³
Density	ASTM D792	1.84 g/cm ³	1.65 g/cm ³	1.65 g/cm ³	1.6 g/cm ³	1.8 g/cm ³	1.76 g/cm ³	1.76 g/cm ³
Calcium Carbonate	ASTM D5630	81 %	75 %	71 %	73 %	81 %	81 %	81 %

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Mean Particle Size (D50)	SUPPLIER	2.6	2.6	1.89	1.89	1.89	1.6	1.6
Top Cut (D98)	SUPPLIER	15	15	7	7	7	8	8
Application		<ul style="list-style-type: none"> • PE film for building industry • Blown extrusion film • Blow molding 	<ul style="list-style-type: none"> • Blown film (mono and co-extrusion) <ul style="list-style-type: none"> - Garbage bags/ Grocery bags - Medium duty bags 	<ul style="list-style-type: none"> • Blown film (mono and co-extrusion) <ul style="list-style-type: none"> - Garbage bags / Grocery bags - Medium duty bags 	<ul style="list-style-type: none"> • Cast film (hygienic) • High MFI blown extrusion 	High end blown extrusion film	<ul style="list-style-type: none"> • Blown film (mono and extrusion) <ul style="list-style-type: none"> - Garbage bag - grocery bags - Medium duty bags • Blow molding 	<ul style="list-style-type: none"> • Blown film (mono and extrusion) <ul style="list-style-type: none"> - Garbage bag - grocery bags - Medium duty bags • Blow molding