

micro | MB

MicroMB FILLERS

CALCIUM CARBONATE

Filler Masterbatch: FL-1014B

Property	Method	FL-1014 P1
Melt Index (190°C, 2.16 kg)	ASTM D1238	0.4g/10min
Moisture	ASTM D10-7191	≤400 ppm
Bulk Density	ASTM D1895B	1.09 g/cm^3
Specific Gravity	ASTM D792	1.86 g/cm^3
Calcium Carbonate	ASTM D5630	81%
Mean Particle Size (D50)	Supplier	1.89

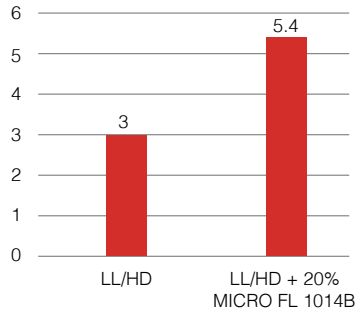
This product is an economical Masterbatch based on very fine particle size coated Calcium Carbonate with LLDPE carrier which contributes to extrusion process stability and improved output.

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

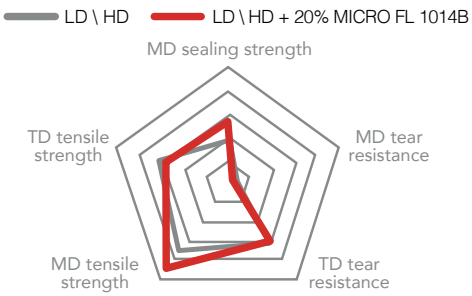
Mainly designed to be used in blown molding.

FEATURES

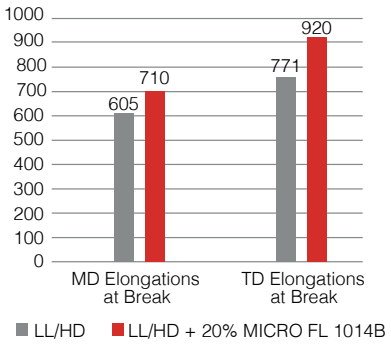
Dart Drop Impact Strength of Heavy Duty Bag blends containing different $CaCO_3$ Masterbatches at 20% loading.



Tensile and Tear Resistance properties of Heavy Duty Bag blends containing different $CaCO_3$ Masterbatches at 20% loading.



% MD/TD Elongations at Break of Heavy Duty Bag blends containing different $CaCO_3$ Masterbatches at 20% loading.



BENEFITS

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

Filler Masterbatch: FL-1014C

Property	Method	FL-1014 P1
Melt Index (190°C, 2.16 kg)	ASTM D1238	2.5g/10min
Moisture	ASTM D10-7191	≤400 ppm
Bulk Density	ASTM D1895B	1.09 g/cm^3
Specific Gravity	ASTM D792	1.83 g/cm^3
Calcium Carbonate	ASTM D5630	81%
Mean Particle Size (D50)	SUPPLIER	1.89

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.

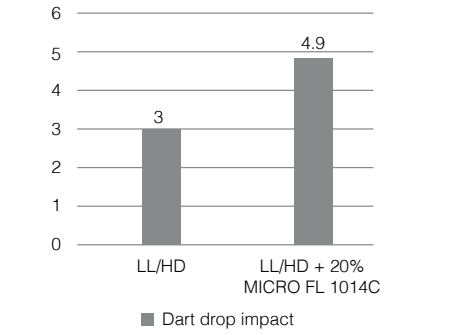
It can be used as an economical alternative for TiO2 in some injection and molding applications.

Application:

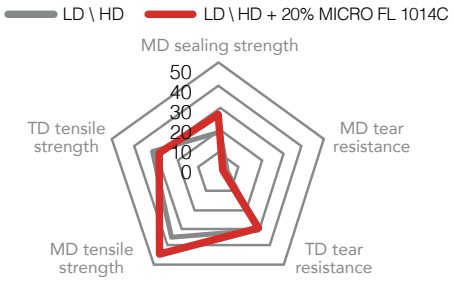
- Cast Film
- Sheet Extrusion / Thermoforming
- Blown Extrusion Film, High MFI

FEATURES

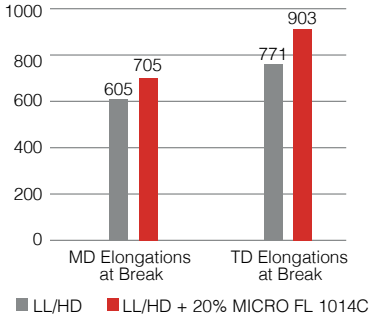
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Tensile and Tear Resistance properties of Heavy Duty Bag blends containing different $CaCO_3$ Masterbatches at 20% loading.



% MD/TD Elongations at Break of Heavy Duty Bag blends containing different $CaCO_3$ Masterbatches at 20% loading.



BENEFITS

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

Other Grade Under The Same Family

Property	Method	FL-1014 P1	FL-1014 P2	FL-1014 P3	FL 1511
Melt Index (230°C, 2.16 kg)	ASTM D1238	3g/10min	5g/10min	5g/10min	-
Bulk Density	ASTM D1895B	1.12 g/cm³	1.15 g/cm³	1.15 g/cm³	1.09 g/cm³
Specific Gravity	ASTM D792	1.8 g/cm³	1.81 g/cm³	1.81 g/cm³	1.9 g/cm³
Calcium Carbonate	ASTM D5630	83%	84%	84%	82%
Mean Particle Size (D50)	SUPPLIER	1.7	1.7	1.7	1.7
Brightness	SUPPLIER	>95%	>95%	>95%	>95%
Application		•Raffia Bags and Woven Fabrics •Sheet Extrusion •Injection Molding	•PP Raffia Tapes •Woven PP Sacks •FIBC/ Big Bags	•PP Raffia Bag •Injection Molding •Pipes •Yarns •Profile Extrusion	• HDPE Bags • Stretch Hoods • Blown Film • Blow Molding Applications • Sheet Extrusion/ Thermo-forming

TALC

Filler Masterbatch: FL-1014T50

Property	Method	FL-1014 P1
Melt Index (190 °C, 2.16 kg)	ASTM D1238	8g/10min
Moisture	ASTM D10-7191	≤400 ppm
Bulk Density	ASTM D1895B	0.78 g/cm ^{3}
Specific Gravity	ASTM D792	1.2 g/cm ^{3}
Talc	ASTM D5630	50%
Mean Particle Size (D50)	SUPPLIER	3.3

This product is an economical Masterbatch based on Talc with LLDPE carrier which contributes to extrusion process stability and improved output.

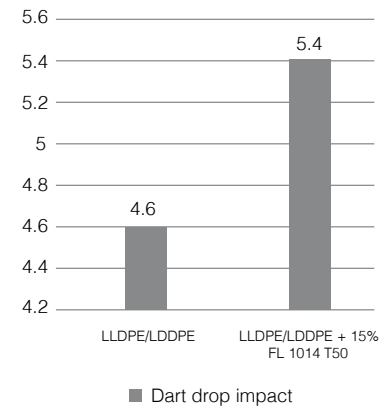
It improves MD Tear Resistance and Dart Impact properties, retains Light Transmission levels and improves MD/TD Shrinkage values.

Application:

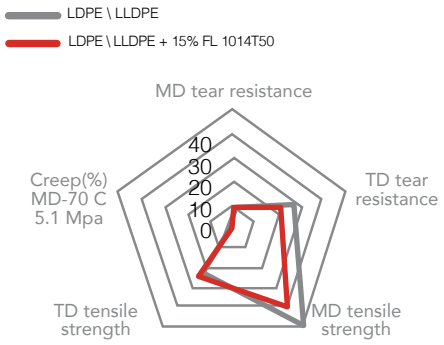
- Unlimited Sulfur Clear Film
- Injection Molding
- Electrical Domestic Appliances
- Electrical Installation
- Automotive Industry
- Garden Furniture
- Television and Computers, etc. Products

FEATURES

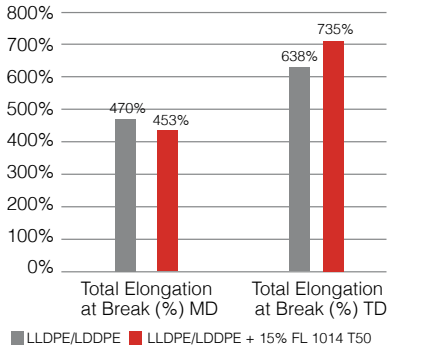
Dart Drop Impact Strength of Shrink Film blends containing different TALC Masterbatches at 15% loading.



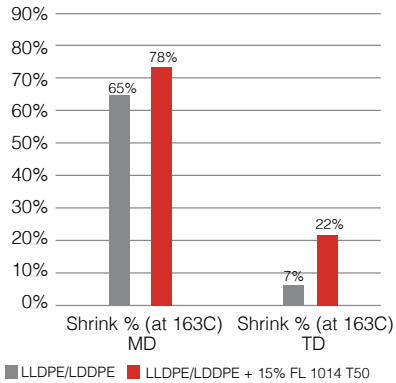
Tensile and Tear Resistance properties of Shrink Film blends containing different TALC Masterbatches at 15% loading.



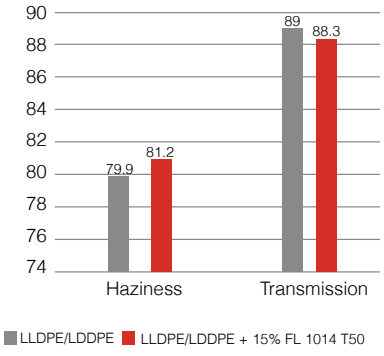
% MD/TD Elongations at Break of Shrink Film blends containing different TALC Masterbatches at 15% loading.



% MD/TD Shrinkage of Shrink Film blends containing TALC Masterbatches at 15% loading.



Haisiness and transmission of Shrink Film blends containing different TALC Masterbatches at 15% loading.



BENEFITS

1. Higher output rate.
2. Perception of same film thickness at reduced gauge due its rough surface.
3. Faster bubble cooling.
4. Lower production blend cost.
5. Improves MD Tear Resistance and Dart Impact properties.
6. Retains Light Transmission levels.
7. Reduces MD Tensile Strength.
8. Improves MD/TD Shrinkage values.

Other Grade Under The Same Family

Property	Method	FL T7720	FL 1014 T70	FL 1014 T60	FL 1014 30TLD
Carrier	TDS	PP	LLDPE	LLDPE	LLDPE
Melt Index (230°C, 5kg)	ASTM D1238	2.5 g/10min	0.1 g/10min	2.4 g/10min	12 g/10min
Bulk Density	ASTM D1895B	0.99g/cm^3	1 g/cm^3	0.9 g/cm^3	0.57 g/cm^3
Specific Gravity	ASTM D792	1.57 g/cm^3	1.65 g/cm^3	1.4 g/cm^3	0.97 g/cm^3
Talc	ASTM D5630	75 %	70 %	62 %	30%
Mean Particle Size (D50)	Supplier	3.3	3.3	3.3	3.3
Brightness	Supplier	>90%	>90%	>90%	>90%
Application		•Sheet Extrusion •PP Pipes •Injection	•Foamed PE Products •Transparent Blown Extrusion Film	•Blown Extrusion for Transparent Film • Electrical Domestic Appliances • Electrical Installation • Automotive Industry • Garden Furniture • Television and Computers, etc.	•Nucleating Agent In Foamed PE

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