



TECHNICAL DATA SHEET

Version: TDS_MB170_V2_241014

CALMAST® MB170

DESCRIPTION

CALMAST® MB170 is a PE Calcium Carbonate Filler MasterBatch product used in the plastic industry.

MAIN INGREDIENTS

No	INGREDIENT NAME/ RAW MATERIAL SPECIFICATIONS	INGREDIENTS/ VALUE	UNIT
1	CaCO3 Content	From 78 to 80	%
2	CaCO3 Particle Size	2	Micron

PHYSICAL PARAMETERS

No	PARAMETER NAME	VALUE	UNIT	CONDITIONS	METHOD
1	Melt Flow Index	From 0.01 to 1.5	g/10min	190°C, 2.16kg	ASTM D1238, A
2	Melting Point	130	°C	-	DSC
3	Moisture	<0.1	%	105°C, 10 min	ASTM D6980
4	Pellet size of product	From 2 to 4	mm	-	-

TEST RESULTS

No	METHOD	MIXING FORMULA			SAMPLE PARAMETER			TEST RESULTS					ILLUSTRATION
		No	Material name	Dosage (%)	No	Parameter Name	Value	No	Parameter Name	Value	Unit	Method	
1	PE BLOW FILM	1	MB170	50	1	Thickness	25 micro	1	Tensile Strength, MD	16.5	Mpa	ASTM D882	
		2	LLDPE (MI=2)	50				2	Tensile Strength, TD	13.4	Mpa	ASTM D882	
								3	Elogation, MD	590	%	ASTM D882	
								4	Elogation, TD	738	%	ASTM D882	
								5	Tear Strength, MD	198	gf	ASTM D1942	
								6	Tear Strength, TD	370	gf	ASTM D1942	
								7	Dart Drop Strength	180	g	ASTM D1709	
								8	Coefficient of friction	0.46	-	ASTM D1894	
								9	Gloss Suface	6.5	Gu	ASTM D2457	

RECOMMENDED USE

1. Compatible application

- Carrier Bags
- PE Injection
- Food contact bags
- GARBAGE BAG

2. Dosage: From 5% to 50%

3. Use Temperature: From 180°C to 280°C

HANDLING

- **Product handling:** Store in a dry place, avoid direct exposure to sunlight.
- **Expiry:** Best within 24 months from date of manufacture and shown on packaging.

NOTE

The data is of a consultative based on our experience

The quality of the final product depends on the technical parameters and control parameters.