

ARAZ MADENCİLİK  
DEMİR ÇELİK İNŞ. İTH. VE İHR.LTD.ŞTİ.

# MB70HG

<b>Short Description</b>	MB70HG is a filler master batch for the production of pearalized BOPP films. The MB70HG contains 70% treated mineral fillers and the vacuoles are formed in the film structure during the bi-orientation process, making opaque and reducing its density according the film thickness and processing condition. The MB70HG can be used at a let-down ratio of 1:6 (15%) with homo polypropylene.	
<b>Physical Data</b>	Physical Form:	Granule
	Color:	Natural-White
<b>Chemical Structure</b>	Homopolymer polypropylene with treated mineral filler and additives.	
<b>Specific Product Data</b>	MFI (ASTM 1238):	2.5 ± 0.5 gr/10min
	Density (ASTM D792-86):	1.65 ± 0.01 gr/cm <sup>3</sup>
	Moisture Content(80 °C/3hr):	0.01% Max
<b>General Product Data</b>	Melting Temp (DSC):	168 ± 1 °C
	Decomposition Temp (DSC):	235 ± 5 °C
<b>Food Approval</b>	MB70HG can be used in food-packaging according to Iran Hygienic institute. Detailed information is available upon request.	
<b>Packaging</b>	Normal bag: 25 Kg – Big Bag: 1000 Kg – Pallet: 1200 Kg	
<b>Storage</b>	MB70HG is very hygroscopic. Therefore it is packed in 25 Kg moisture proof bags. Open bags must be used immediately. Pre-drying is recommended. MB70HG can be stored up to maximum 12 months at 25 °C for optimum performance .Higher temperatures might reduce storage time considerably.	
<b>Safety and Handling</b>	This product is not classified as a dangerous one.	
<b>Disclaimer</b>	The as-mentioned product(s) herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.	

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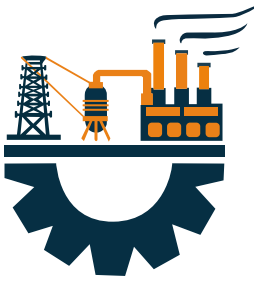
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# MB70PP

## Short Description

MB70PP is a filler master batch based on Polypropylene. MB70PP contains 70% treated calcium carbonate which can be used in OPP, CPP, BOPP films and raffia.

## Physical Data

Physical Form: Granule  
Color: Natural-White

## Chemical Structure

Copolymer polypropylene with treated mineral filler and additives.

## Specific Product Data

MFI (ASTM 1238):  $2 \pm 0.2$  gr/10min  
Density (ASTM D792-86):  $1.73 \pm 0.01$  gr/cm<sup>3</sup>  
Moisture Content(80 °C/3hr): 0.01 wt% Max

## General Product Data

Melting Temp (DSC):  $166 \pm 1$  °C  
Decomposition Temp (DSC):  $243 \pm 5$  °C

## General Application

MB70PP is especially designed to reduce cost of raffia and CPP films. Advantages of the addition of calcium carbonate to PP resin are followed:

Cost reduction  
Improved rigidity  
Anti-blocking properties  
Improved Productivity  
Improved Printability

## Addition Level

Raffia 5-15 wt%  
CPP and BOPP film 5-15 wt%

## Food Approval

MB70PP can be used in food-packaging according to Iran Hygienic institute. Detailed information is available upon request.

## Packaging

Normal bag: 25 Kg – Big Bag: 1000 Kg – Pallet: 1200 Kg

## Storage

MB70PP is very hygroscopic. Therefore it is packed in 25 Kg moisture proof bags. Open bags must be used immediately. Pre-drying is recommended. MB70PP can be stored up to maximum 12 months at 25 °C for optimum performance .Higher temperatures might reduce storage time considerably.

## Safety and Handling

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## Disclaimer

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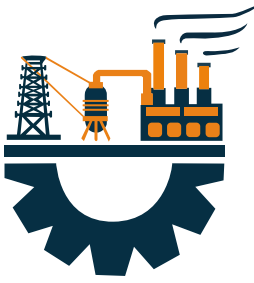
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# MB80PE

## Short Description

MB80PE is a filler master batch based on linear low density polyethylene. MB80PE contains 80±1% treated calcium carbonate which can be used in Blowing and cast polyethylene films.

## Physical Data

Physical Form: Granule  
Color: Natural-White

## Chemical Structure

Linear low density polyethylene and PE-Wax with treated mineral filler and additives.

## Specific Product Data

MFI (ASTM 1238): 0.8 ± 0.1 gr/10min  
Density (ASTM D792-86): 1.8 ± 0.01 gr/cm<sup>3</sup>  
Moisture Content (80 °C/3hr): 0.01 wt% Max

## General Product Data

Melting Temp (DSC): 115 ± 1 °C  
Decomposition Temp (DSC): 245 ± 4 °C

## General Application

MB80PE is especially designed to reduce cost of PE Blowing and cast production films. Advantages of the addition of calcium carbonate to PE resin are as followed:  
Cost reduction  
Improved rigidity  
Anti-blocking properties  
Improved Productivity  
Improved Printability

## Addition Level

blowing film 10-80 wt%  
Cast film 5-40 wt%

## Food Approval

MB80PE can be used in food-packaging according to Iran Hygienic institute. Detailed information is available upon request.

## Packaging

Normal bag: 25 Kg – Big Bag: 1000 Kg – Pallet: 1200 Kg

## Origin

Iran

## Storage

MB80PE is very hygroscopic. Therefore it is packed in 25 Kg moisture proof bags. Open bags must be used immediately. Pre-drying is recommended. MB80PE can be stored up to maximum 12 months at 25 °C for optimum performance .Higher temperatures might reduce storage time considerably.

## Safety and Handling

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## Disclaimer

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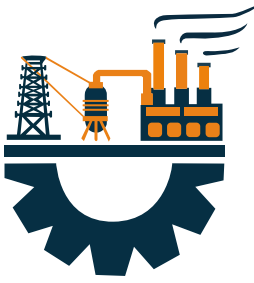
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## MB80PP

### Short Description

MB80PP is a filler master batch based on hemopolymer polypropylene. MB80PP contains 80%± 1% fine treated calcium carbonate which can be used in PP raffia, and thin PP film and tape and woven bags.

### Physical Data

Physical Form: Granule  
Color: Natural-White

### Chemical Structure

Homopolymer polypropylene with treated mineral filler and additives.

### Specific Product Data

MFI (ASTM 1238):  $6 \pm 1$  gr/10min  
Density (ASTM D792-86):  $1.77 \pm 0.01$  gr/cm<sup>3</sup>  
Moisture Content(80 °C/3hr): 0.01% Max

### General Product Data

Melting Temp (DSC):  $168 \pm 1$  °C  
Decomposition Temp (DSC):  $245 \pm 5$  °C

### General Application

MB80PP is especially designed to reduce cost of PP film and tape and woven bag. Advantages of the addition of calcium carbonate to PP resin are followed:  
Cost reduction  
Improved rigidity  
Anti-blocking properties  
Improved Productivity  
Improved Printability

### Addition Level

PP tapes for small bags 5-20 wt%  
PP thin films and tapes 5-20 wt%

### Food Approval

MB80PP can be used in food-packaging according to Iran Hygienic institute. Detailed information is available upon request.

### Packaging

Normal bag: 25 Kg – Big Bag: 1000 Kg – Pallet: 1200 Kg

### Origin

Iran

### Storage

MB80PP is very hygroscopic. Therefore it is packed in 25 Kg moisture proof bags. Open bags must be used immediately. Pre-drying is recommended. MB80PP can be stored up to maximum 12 months at 25 °C for optimum performance .Higher temperatures might reduce storage time considerably.

### Safety and Handling

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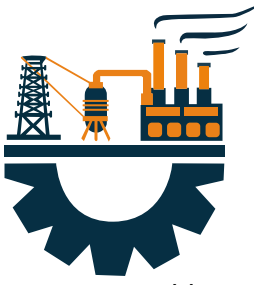
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# MB2470-PE

MB4270-PE is a white masterbatch with high heat stability based on Low density polyethylene. This compound can be used for the coloring of PE film and sheet as well as injection molding parts.

## Short Description

### Physical Data

Physical Form: Granule

Color: White

### Chemical Structure

LDPE:  $29 \pm 2$  wt%

TiO<sub>2</sub> content:  $70 \pm 2$  wt%

Additives: 1 wt%

### Specific Product Data

MFI (ASTM 1238):  $12 \pm 0.5$  gr/10min

Density (ASTM D792-86):  $1.72 \pm 0.01$  gr/cm<sup>3</sup>

### General Product Data

Melting Temp (DSC):  $110 \pm 2$  °C

Decomposition Temp (DSC):  $260 \pm 2$  °C

Volatility: 0.01 wt% Max

### Recommendation dosage

PE thermoforming sheets: 1-3 wt%

PE films: 0.5-1 wt%

Injection molded PE parts: 2-4 wt%

### Food Approval

MB4270-PE can be used in food-packaging according to Iran Hygienic institute. Detailed information is available upon request.

### Packaging

Normal bag: 25 Kg

### Origin

Iran

### Storage

MB4270-PE is very hygroscopic. Therefore it is packed in 25 Kg moisture proof bags. Open bags must be used immediately. Pre-drying is recommended. MB4270-PE can be stored up to maximum 6 months at 25 °C for optimum performance. Higher temperatures might reduce storage time considerably.

### Safety and Handling

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### Disclaimer

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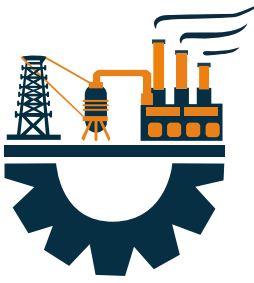
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# MB2470-PP

<b>Short Description</b>	MB4270-PP is a white masterbatch with high heat stability based on homopolypropylene. This compound can be used for the coloring of PP films (OPP, CPP, BOPP) and sheet as well as injection molded parts.	
<b>Physical Data</b>	Physical Form:	Granule
	Color:	White
<b>Chemical Structure</b>	PP:	25 ± 2 wt%
	TiO <sub>2</sub> content:	70 ± 2 wt%
	Additives:	5 wt%
<b>Specific Product Data</b>	MFI (ASTM 1238):	8 ± 0.5 gr/10min
	Density (ASTM D792-86):	1.70 ± 0.01 gr/cm <sup>3</sup>
<b>General Product Data</b>	Melting Temp (DSC):	165 ± 2 °C
	Decomposition Temp (DSC):	257 ± 2 °C
	Volatility:	< 1500 ppm
<b>Recommendation dosage</b>	PP thermoforming sheets: 1-3 wt% PP films (OPP, CPP, BOPP): 0.5-1 wt% Injection molded PP parts: 2-4 wt%	
<b>Food Approval</b>	MB4270-PP can be used in food-packaging according to Iran Hygienic institute. Detailed information is available upon request.	
<b>Packaging</b>	Normal bag: 25 Kg	
<b>Origin</b>	Iran	
<b>Storage</b>	MB4270-PP is very hygroscopic. Therefore it is packed in 25 kg moisture proof bags. Open bags must be used immediately. Pre-drying is recommended. MB4270-PP can be stored up to maximum 6 months at 25 °C for optimum performance .Higher temperatures might reduce storage time considerably.	
<b>Safety and Handling</b>	This product is not classified as a dangerous one.	
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## List of Compound Products

Date: 08/03/1400

Row	Product Group	Grade	Application	Description
<b>Filler</b>				
1	Filler Maasterbatch	MB80PP, MB75PP	Filler Masterbatch	Raffia, CPP, OPP film, PP Thermoforming sheet
		MB80PE, MB75PE	Filler Masterbatch	PE films
3	Pearlized Masterbatch	MB70HG, MB70MP, MB70PP	Pearlized Masterbatch	PP films (blown, cast, BOPP) and PP molding film, Raffia, Carton Plast, PP injection molding products, ....
<b>Additive</b>				
4	Anti-block	MB05AB-PP	Anti-block Masterbatch	OPP, CPP and BOPP film
5		MB05AB-PE	Anti-block Masterbatch	PE film (blown, cast)
6		MB05AB-PET	Anti-block Masterbatch	BOPET film
7	Slip	MB15SL-PE	Slip Masterbatch	PE film (blown, cast)
8		MB15SL-PP	Slip Masterbatch	PP film (blown, cast, BOPP)
10	Anti-static	MB15AS-PP	Anti-static Masterbatch	PP film (blown, cast, BOPP)
11		MB15AS-PE	Anti-static Masterbatch	PE film (blown, cast)
	Optical Brightner	MB01OB-PE	Optical brightner Masterbatch	PE film (blown, cast)
		MB01OB-PP	Optical brightner Masterbatch	PP films (blown, cast)
12	UV Stabilizer	MB20UV-PE	UV Stabilizer Masterbatch	Industrial PE film
13		MB20UV-PP	UV Stabilizer Masterbatch	PP and nonwoven applications
14	Anti-oxidant	MB15AO-PE	Anti-oxidant Masterbatch	Thermal stabiliztion of PE
15		MB15AO-PP	Anti-oxidant Masterbatch	Thermal stabiliztion of PP
16	Flame Retardant	MB30FR-PE	Halogenated Flame retardant Masterbatch	PE film, goods and sheet application
17		MB30FR-PP	Halogenated Flame retardant Masterbatch	PP sheet, film and goods
<b>White</b>				
18	White Masterbatch	MB4220-PE, MB4230-PE, MB4240PE, MB4250PE, MB4260PE, MB4270PE	White Masterbatch	PE film (blown, cast)
19		MB4220-PP, MB4230-PP, MB4240PP, MB4250PP, MB4260PP, MB4270PP	White Masterbatch	PP films (blown, cast, BOPP), Injection molded products, Raffia, Carton Plast, ....
20		MB4230-PET	White Masterbatch	PET thermoforming, BOPET Film
<b>Black</b>				
21	Black Masterbatch	MB45PE, MB50PE	Black Masterbatch	Pipe, Injection Molded PE products, PE film, Thermoforming
22		MB45PP, MB50PP	Black Masterbatch	Injection molded PP products
23		MB9100-PET	Black Masterbatch	PET films and filaments
	Beige Masterbatch	MB8007PP	Beige Masterbatch	Raffia
<b>Compound</b>				
24	Halogen free flame retardant compound	HFFR-60	Halogen free flame retardant compound	Bedding for power and control cables

25	Halogen free flame retardant compound	HFFR-50	Halogen free flame retardant compound	Insulation for power and control cables
26	Halogen free flame retardant compound	HFFR-45	Halogen free flame retardant compound	Aluminum wall covering composite applications
27	Reinforced PP compound	PP20T	Reinforced PP compound with 20 wt% Talc (Black, Blue, Gray, Creamy)	Fans and Shrouds of automobile
28	Reinforced PP compound	PP30T	Reinforced PP compound with 30 wt% Talc (Black, Blue, Gray, Creamy)	Lamp Housings of automobile
29	Reinforced PP compound	PP40T	Reinforced PP compound with 40 wt% Talc (Black, Blue, Gray, Creamy)	Splash Shields of automobile
30	Thermoplastic Elastomer Compound	TPO-30	Thermoplastic Elastomer Compound	Control Cable Insulation
31		TPO-70		Casket and Sealing Applications

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