

MASTERBATCH & COMPOUND SOLUTIONS

Filler, additive, color and biodegradable material solutions for plastics processing.

PE

PP

PLA

PBAT

PBS

CaCO₃

TiO₂

BaSO₄

ABOUT TRADEGE AND GEMB

Global Supply. Strategic Solutions.

Tradege is a global trading company specializing in the supply and distribution of industrial and commercial products. We connect suppliers and buyers through established partnerships, coordinated documentation and efficient logistics solutions.

GEMB brings together masterbatch, mineral filler and biodegradable compound options for film, injection, extrusion, raffia, nonwoven and related plastics applications.

A practical export partner

Product coordination from requirement to delivery.

01

Global sourcing
network

02

Supplier and
product
coordination

03

Export
documentation
support

04

Logistics and
delivery
coordination

GEMB VALUE

CONSISTENT

Selected formulations and
batch-to-batch coordination.

TAILORED

Grade matching and custom formulation
pathways.

RESPONSIVE

Commercial and technical follow-up for
each inquiry.

EXPORT-READY

Documentation and shipment
coordination through Tradege.

PORTFOLIO OVERVIEW

Product Selection Guide

PRODUCT FAMILY	CARRIER / BASE	TYPICAL APPLICATIONS	PAGE
CaCO ₃ filler masterbatch	PE / PP	Film, bags, raffia, nonwoven, injection, extrusion	04
TiO ₂ white masterbatch	PE	Film, packaging, containers, injection, extrusion	05
BaSO ₄ masterbatch	PE	Film, injection and extrusion applications	06
Functional additives	PE / LLDPE	UV, antioxidant, anti-block and slip functions	07
Bio filler and compounds	PBAT / PLA / PBS	Film, bags, coating, injection, straws and filament	08-11
Calcium carbonate powder	Mineral	Plastics, paint, paper and construction	12
Black and color masterbatch	Polyolefin options	Film, pipe, cable, injection, coating	13

FROM REQUIREMENT TO REPEAT SUPPLY

- 1** **DEFINE**
Resin, process, end-use and target property
- 2** **SELECT**
Match a standard grade or assess customization
- 3** **VALIDATE**
Review TDS, sample and application performance
- 4** **SUPPLY**
Confirm documentation, packing and shipment plan

MINERAL FILLER SOLUTIONS

Calcium Carbonate Filler Masterbatch

Designed to support cost optimization and targeted performance in a broad range of plastics processes. PE and PP carrier options are available for different applications.

TYPICAL PROPERTY	CATALOGUE VALUE
Carrier resin	PE or PP
CaCO ₃ content	60-86%
Density	1.80-1.87 g/cm ³
Moisture	<0.2%
MFI	3-10 g/10 min (190 C / 5 kg)
Pellet size	2.0-3.0 mm
Color	White
CaCO ₃ powder size	D97 = 10-15 micron



PE AND PP CARRIER OPTIONS



PE-based grades

- Blown film and bags
- Furniture and containers
- Water tanks
- HDPE pipe extrusion



PP-based grades

- Woven and jumbo bags
- Lamination
- Nonwoven
- Injection and extrusion

Formulations can be matched to the end-use, processing route and required filler loading.

CONCENTRATED WHITE SOLUTIONS

Titanium Dioxide White Masterbatch

PE-based TiO2 masterbatches are offered across a 35-68% concentration range for film, packaging, injection and extrusion applications.



GRADE	TiO2 CONTENT	DENSITY G/CM3	MOISTURE	MFI G/10 MIN*	PELLET SIZE
PE-Ti35	35%	1.82	<=0.15%	23	2.2 mm
PE-Ti40	40%	1.81	<=0.15%	19	1.8 mm
PE-Ti50	50%	1.81	<=0.15%	26	1.8 mm
PE-Ti60	60%	1.81	<=0.15%	22	2.2 mm
PE-Ti68	68%	1.81	<=0.15%	22	1.8 mm

*MFI catalogue condition: 190 C / 2.16 kg. Appearance: white oval pellets.

TYPICAL APPLICATIONS

Shopping and garbage bags

Industrial and packaging film

Containers

Injection molding

Extrusion and lamination

TRANSPARENT AND MINERAL FILLER RANGE

Barium Sulfate Masterbatch

PE-based BaSO4 masterbatches are available in three concentration levels. Grade selection depends on the processing route, target appearance and loading strategy.



GRADE	CARRIER	BASO4	DENSITY G/CM3	MOISTURE	MFI G/10 MIN*	PELLET SIZE
BA20	PE	20%	1.85	<=0.15%	20	1.8 mm
BA35	PE	35%	1.85	<=0.15%	18	1.8 mm
BAT7505	PE	75%	1.85	<=0.15%	15	1.8 mm

*MFI catalogue condition: 190 C / 2.16 kg. Appearance: white oval pellets.

APPLICATION SCOPE

- Shopping and garbage bags
- Industrial and packaging films
- Injection and extrusion
- Film blowing and related conversion processes

SELECTION NOTE

Review optical targets, final let-down ratio and resin compatibility during grade selection. Request a grade-specific TDS for production validation.

PERFORMANCE ADDITIVES

Functional Additive Masterbatches

Four functional families address common processing and end-use requirements in film, pipe, profile, cable and molded products.

UV

UV Stabilizer

Designed to protect polymer properties against photo-degradation caused by sunlight exposure.

- UV resistance for end-use targets
- Balance of UV and thermal stability
- Film, injection, fiber and pipe applications



AO

Antioxidant

HII AO11 combines antioxidant additives in an LLDPE carrier for processing and service-life protection.

- Suggested addition: 1-5%
- Pipes, profiles, film and cables
- Injection, tape, geotextile and blow molding

AB

Anti-block

PE-based anti-block masterbatch creates controlled surface roughness to reduce film-to-film adhesion.

- Supports easier film and bag opening
- Suitable for multilayer film structures
- Shopping, grocery and carry bags



SL

Slip Agent

A fatty acid amide combination in a PE carrier, designed to reduce coefficient of friction in film processing.

- Improves surface slip and smoothness
- Supports conversion and handling
- Shopping, grocery and carry bags

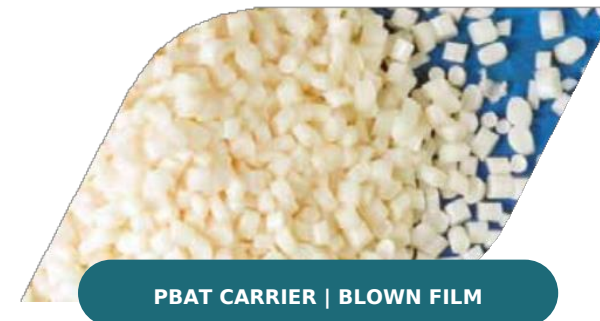


BIODEGRADABLE AND COMPOSTABLE COMPOUND

BIO HF1 Bio Filler Masterbatch

BIO HF1 is positioned as a biodegradable and compostable CaCO₃-filled compound for blown film applications. Final addition depends on film structure and performance targets.

TYPICAL PROPERTY	CATALOGUE VALUE
CaCO ₃ content	75-80 wt%
Melt mass-flow rate	0.34 +/- 0.10 g/10 min (190 C / 5 kg)
Melt temperature	115 C
Density	1.90 g/cm ³
Moisture	<0.1 wt%
Polymer and additives	20-25 wt%
Pellet size	3 x 3 (+/-0.3) mm



USE AND HANDLING

- Indicative addition range: 5-20%
- Processing temperature: 145-165 C
- Appearance: light-colored pellets
- Packing: 25 kg per bag
- Store in dry conditions

Validate film strength, elongation and sealing behavior at the selected let-down ratio.

CORE PBAT, PBS AND BLENDED GRADES

Biodegradable Film Compounds

Grades in this section cover base resins and ready-to-process blends for film, coating, sheet, fiber and disposable-product applications.

GRADE	COMPOSITION	PRIMARY APPLICATION	DENSITY G/CM3	MFI G/10 MIN*	THERMAL VALUE
BG1000	100% PBAT	Blow-molding and blending	1.25	2-5	125 C
BG1070	100% PBAT	Blow-molding and blending	1.25	2-5	125 C
BG8800	PBAT + PLA + slip / anti-block	General thin film	1.29-1.32	2-5	110-130 / 150-180 C
BG5000J	100% PBS	Coating, injection, disposables	1.30	15-25	115-118 C
BG5000M	100% PBS	Sheet, film and fiber	1.25-1.27	2-5	115-118 C

*MFI condition: 190 C / 2.16 kg. Values reproduced and normalized from the source catalogue.

SELECTION CUES

PBAT: flexible film pathways

PBS: coating, sheet and molded applications

Blends: targeted processing and film functionality

APPLICATION-ORIENTED BIODEGRADABLE BLENDS

CTR02 Film Grade Series

The CTR02 range is organized by composition and film appearance for shopping, grocery and carry-bag applications.

GRADE	COMPOSITION	FILM POSITIONING	DENSITY G/CM3	MFI G/10 MIN*	MELT TEMP.
CTR02-A	PLA + PBAT	Transparent film	1.25-1.27	2-4	128-130 C
CTR02-B	PLA + PBAT	Translucent film	1.25-1.27	5-10	125-130 C
CTR02-C	PBAT + PLA + CaCO3	White film	1.33	2-5	128-132 C
CTR02-D	PBAT + starch	White film	1.23-1.25	3-5	120-125 C
CTR02-E	PBAT + CaCO3	White film	1.45-1.47	2-3	125-130 C

*MFI condition: 190 C / 2.16 kg. Density method shown in source: ISO 1183.

SHARED CHARACTERISTICS

- Good processability and printability
- 12-month shelf life stated in the source catalogue
- Grade selection by opacity, density and flow

VALIDATION FOCUS

Confirm film thickness, MD/TD tensile, elongation and tear targets during sampling. Final performance depends on processing and structure.

Compounds for Extrusion and Molding

Application-led grades extend the bio portfolio beyond film into extrusion, injection molding and filament production.

ANBIO S3

COMPOSITION

PLA + PBAT

PRIMARY APPLICATION

Extrusion for straight and bendy straws

CATALOGUE VALUES

- Density: 1.263 g/cm³
- MFI: 2-5 g/10 min
- Melt temperature: 155 C

BG4400

COMPOSITION

PLA + additives

PRIMARY APPLICATION

Food containers and cutlery
by injection molding

CATALOGUE VALUES

- Density: 1.40 g/ml
- MFI: 5-12 g/10 min
- HDT: 100-120 C

BG4800

COMPOSITION

PLA + impact modifier

PRIMARY APPLICATION

3D filament production

CATALOGUE VALUES

- Density: 1.15-1.20
- MFI: 5-10 g/10 min
- HDT: 50 C

DOCUMENTATION NOTE

Selected source grades are described as certified compostable / biodegradable or suitable for food contact. Request current, grade-specific certificates and declarations before commercial use.

COATED AND UNCOATED MINERAL GRADES

Calcium Carbonate Powder

Superfine calcium carbonate powder is offered for plastics, paint, paper and construction applications. Coated and uncoated options are available across a broad particle-size range.



PROPERTY	CATALOGUE SPECIFICATION
Top cut (D97)	8-55 micron +/- 2
Mean size (D50)	2.5-5 micron +/- 0.5
Whiteness	98% min
Brightness	96% min
Moisture (ex-works)	0.25% max
Raw material density	2.7 g/cm3
pH	8-9
CaCO3 content	99% min

APPLICATION SECTORS

- Filler masterbatch
- Plastic pipes and cables
- Paint formulations
- Paper production
- Construction materials

Select coating status and particle size according to dispersion, rheology and final surface re

CONSISTENT COLOR FOR PLASTICS PROCESSING

Black and Color Masterbatches

GEMB color masterbatches combine pigments, carrier resin and selected additives to provide consistent coloration across a wide range of processing routes.



Black Masterbatch

- High-quality carbon black in a virgin PE carrier
- Good dispersion and color strength
- Thermal resistance and UV-support options
- Film, pipe, cable, injection and coating

Color Range

Standard and custom color options are available for application-specific matching.



Yellow



Green



Red



Orange



Blue



Purple



Brown



Grey



Custom

FOR AN EFFICIENT COLOR MATCH

Share the base resin, processing method, target shade or reference sample, opacity requirement, end-use conditions and expected let-down ratio.

TECHNICAL AND COMMERCIAL INQUIRY CHECKLIST

Build the Right Product Request

A complete brief helps shorten grade selection, sampling and quotation time. Include the information below with your inquiry.

01

MATERIAL

Base polymer and current formulation

02

PROCESS

Film, injection, extrusion, raffia or nonwoven

03

PERFORMANCE

Color, loading, UV, COF, opacity or mechanical target

04

CONDITIONS

Processing temperature and equipment details

05

COMMERCIAL

Estimated volume, packing and destination

06

VALIDATION

Required sample quantity, TDS, COA and certificates

READY TO DISCUSS A GRADE?

export@tradege.com.tr

+90 506 450 9208

tradege.com.tr



LET US BUILD YOUR NEXT SOLUTION

START WITH YOUR APPLICATION.

Send your resin, process, target property and delivery destination. Our team will coordinate the next technical and commercial steps.

CONTACT

export@tradege.com.tr

+90 506 450 9208

tradege.com.tr

Adalet Mahallesi, Manas Bulvari No:39
Ic Kapi No:2511, Bayrakli, Izmir, Turkiye



VISIT TRADEGE.COM.TR