

CACO3 FILLER & COLOR MASTERBATCH

Edition: 2025



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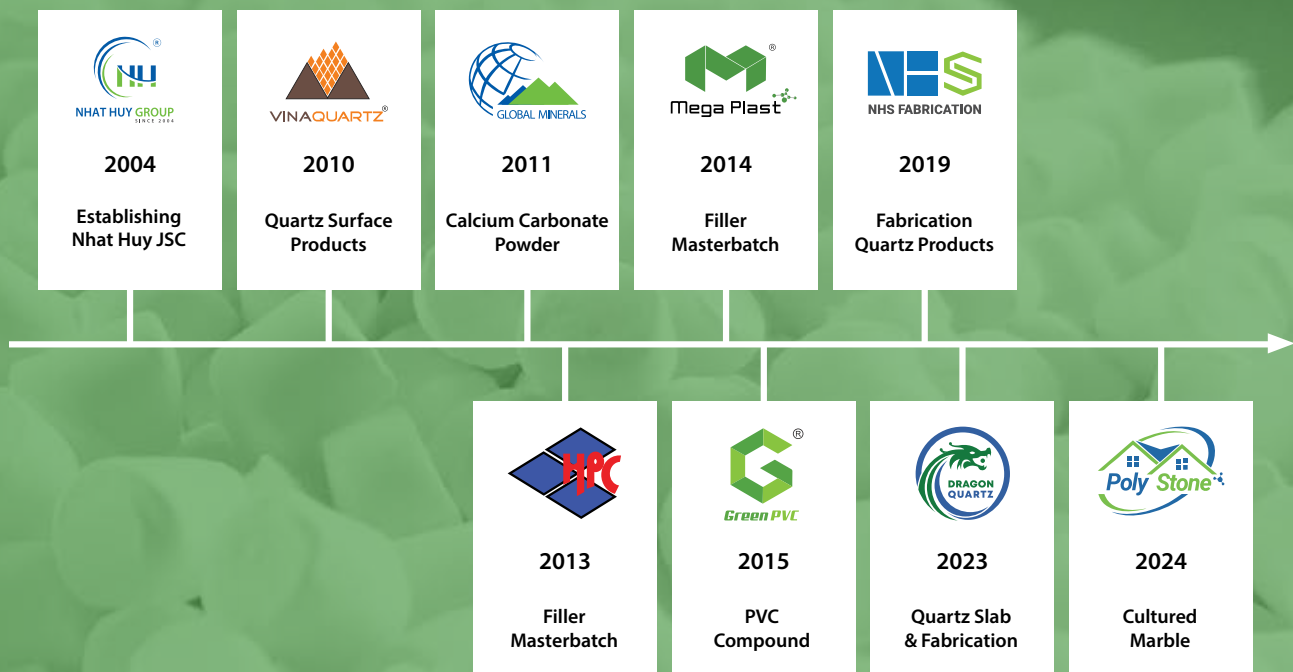
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INTRODUCTION

Mega Plast takes pride in being a core member of Nhat Huy Group, Vietnam's leading multi-industry manufacturing group with over 20 years of expertise, particularly in the plastics industry. As one of Vietnam's top manufacturers and exporters of CaCO₃ Filler Masterbatch, Color Masterbatch, and other Additive Masterbatches, we are committed to delivering high-quality, cost-effective, and sustainable solutions to global markets.

With the philosophy that "The beauty of industrial production lies in continuous innovation" we have built and developed a strong network of manufacturing facilities, ensuring consistent quality, high production capacity, and global supply chain efficiency. Today, our products reach customers across five continents, supporting diverse industries from packaging and injection molding to extrusion and fiber production.

By focusing on technological advancements, operational efficiency, and customer - driven solutions, Mega Plast is empowering manufacturers worldwide to optimize their production while ensuring sustainability.



Mega Plast's Industrial Evolution within Nhat Huy Group

OVERVIEW

As a core member of Nhat Huy Group, Mega Plast JSC. operates two state-of-the-art manufacturing plants - Mega Plast Factory and Huu Nghi Plastic Compounds Factory - dedicated to producing high-performance plastic additives. Our integrated production system ensures efficiency, consistency, and global competitiveness.

The Strength of Nhat Huy Group's Integrated Ecosystem

At Mega Plast, we leverage the powerful ecosystem of Nhat Huy Group, ensuring a seamless and competitive supply chain for masterbatch production. Our Raw Material Factories - Global Minerals - a leading manufacturer of CaCO_3 Powder—provides a stable and high-quality raw material supply, reinforcing our ability to maintain consistent product quality and production efficiency.

OUR INTEGRATED SYSTEM INCLUDES:



Global Minerals Factories

- * Number: 02 Factories
- * Production Capacity: 11.000 Containers/year
- * Ensuring a stable, high-purity CaCO_3 Powder supply for filler masterbatch production.



Mega Plast & Huu Nghi Plastic Compounds

- * Number: 02 Factories
- * Production Capacity: 8.500 Containers/year
- * High-capacity production to meet diverse industry demands and Customizable solutions tailored to global market needs.

By operating within this eco-system supply chain, Mega Plast maintains:

Reliable raw material sourcing for uninterrupted production.

Superior product consistency through direct control over inputs.

Cost efficiency & optimized logistics with in-house material supply.

Rapid response to market fluctuations while ensuring on-time delivery.

With the combined strength of Nhat Huy Group's ecosystem, Mega Plast is not just a masterbatch manufacturer - we are a trusted partner, providing raw materials solutions that drive efficiency, quality, and competitiveness in the global plastics industry.





PRODUCT:

Filler Masterbatch

Color Masterbatch

White Masterbatch

Black Masterbatch

Additives Masterbatch

Website: Megaplast.com.vn

MEGA PLAST
Factories



Global Reach & Export Excellence

With an export volume exceeding 8,500 containers per year, Mega Plast serves more than 200 customers across 60+ countries. Our Filler Masterbatch products are widely used in markets such as India, Saudi Arabia, Brazil, Nigeria, Indonesia, Poland, Africa, etc, where we have built a reputation for high performance, competitive pricing, and exceptional service.

Cutting-Edge Production & Quality Control

At Mega Plast, we integrate modern manufacturing technology with strict quality management systems to ensure consistency, efficiency, and superior product performance. Our factory is equipped with:

Fully automated
production lines for
precision processing.

On-site R&D and
testing laboratories
to ensure formulation
consistency.

Stringent quality
control (QC)
measures, adhering to
international standards
such as ISO, REACH,
and RoHS.

Flexible Logistics & Customization

We understand that each market has unique requirements, and our factory is built to meet diverse customer needs with:

Custom packaging &
private labeling
solutions.

Compliance with
international packing,
loading, and fumigation
standards.

Strong partnerships
with major shipping
companies to optimize
delivery time and costs.

With advanced production capabilities, a highly skilled workforce, and a strong global supply network, Mega Plast Factory stands as a trusted partner for high-performance Filler Masterbatch solutions, ensuring quality, efficiency, and reliability for our customers worldwide.

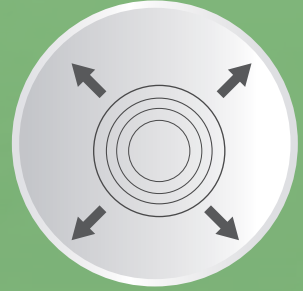
PE FILLER MASTERBATCH



Key Benefits



High
dosing rate



Good
dispersion



Good
printability



Low
moisture



Smooth
surface



PE FILLER MASTERBATCH

Applications

Applications Across Multiple Industries

- * **Blown Film:** HDPE/LDPE/LLDPE films, shopping bags, agricultural films.
- * **Blow Molding:** Plastic bottles, containers, industrial packaging.
- * **Extrusion:** Pipes, sheets, profiles, tarpaulins.
- * **Injection Molding:** Household items, automotive components, plastic furniture.
- * **Rotomolding:** Tank,...

With advanced manufacturing technology, stringent quality control, and a strong global supply network, Mega Plast's PE Filler Masterbatch delivers cost-effective, high-performance solutions for manufacturers worldwide.

Blown Film



Blow Molding



Tarpaulin



Cast Film



HDPE Injection



HDPE Extrusion



OPTIMIZING COST & PERFORMANCE IN PLASTIC PRODUCTION

At Mega Plast, we specialize in producing high-quality PE Filler Masterbatch, designed to enhance cost efficiency, processing performance, and material durability in plastic manufacturing. Our PE Filler Masterbatch is a precise blend of polyethylene resin, ultrafine CaCO₃ powder, and functional additives, ensuring superior dispersion and mechanical properties.

Why Choose Mega Plast's PE Filler Masterbatch?

Cost Optimization	High Dosing Rate	Excellent Dispersion	Low Moisture Content	Good Printability & Surface Finish
Reduces the use of virgin resin while maintaining product integrity.	Allows for flexible formulation without compromising quality.	Ensures smooth processing and consistent product performance.	Prevents defects and enhances stability in production.	Provides excellent adhesion for printing applications.

No.	Specification	Test Method	Unit	Applications				
				Blown Film	Blow Molding	Injection	Extrusion	Tarpaulin
1	Base	--	--	LLDPE	HDPE	HDPE	HDPE	HDPE
2	Grades	--	--	+ F201 + F261 + F251	+ B204 + B284 + B264	+ I204 + I284 + I264	+ E204 + E284 + E264	+ W204 + W284 + W264
3	CaCO ₃ D50 Particle size	Laser diffraction	μ	1-3	1-3	1-3	1-3	1-3
4	Melt Flow Index (2.16kg/190°C)	ASTM D1238	g/10 mins	0.5-1.5	1-2	5-15	1-2	3-5
5	Specific Gravity Density	ASTM D1505	g/cm ³	1.8±0.5	1.8±0.5	1.8±0.5	1.8±0.5	1.8±0.5
6	Moisture (Max)	Precisa	%	0.1	0.1	0.1	0.1	0.1

*Note: We can supply many other different grades of Filler Masterbatch depending on client's specification requirement. We are also pleased to provide samples for trial in your own facility.

PP FILLER MASTERBATCH



Key Benefits



High
dosing rate



Excellent
elongation



Good
printability



Low water
carryover



Enhance
strength

PP FILLER MASTERBATCH

Applications

Applications Across Multiple Industries

- * **PP Woven Bags & Sacks:** Agricultural bags, cement bags, shopping bags.
- * **Non-woven:** Non-woven bags, masks,...
- * **Injection Molding:** Household products, automotive parts, plastic furniture.
- * **Extrusion:** Sheets, pipes, strapping bands, non-woven fabrics.
- * **Thermoforming & Blow Molding:** Rigid packaging, containers, storage boxes.

With advanced production technology, strict quality control, and a strong global supply network, Mega Plast's PP Filler Masterbatch delivers cost-effective, high-performance solutions, ensuring efficiency and durability in polypropylene-based applications.

Woven/Raffia



Non-Woven



Injection Molding



Thermoforming



Lamination



PPR Pipe



ENHANCING STRENGTH & COST EFFICIENCY IN POLYPROPYLENE PROCESSING

At Mega Plast, we specialize in manufacturing high-quality PP Filler Masterbatch, designed to enhance material strength, cost efficiency, and processing performance in polypropylene applications. Our PP Filler Masterbatch is formulated with high-purity CaCO₃, polypropylene resin, and specialized additives, ensuring optimal dispersion, improved stiffness, and reduced production costs.

Why Choose Mega Plast's PP Filler Masterbatch?

Cost Reduction	Improved Rigidity & Stiffness	Excellent Dispersion	Low Moisture Content	Optimized Surface Quality
Reduces the use of virgin PP resin while maintaining mechanical properties.	Enhances structural integrity for injection and extrusion applications.	Ensures uniformity in processing, reducing defects.	Prevents processing issues and enhances product stability.	Rapid response to market fluctuations while ensuring on-time delivery.

No.	Specification	Test Method	Unit	Applications					
				PP Woven	PP Non-woven	Injection	Thermoforming	Lamination	PP Pipe Extrusion
1	Base	--	--	PP	PP	PP	PP	PP	PPR
2	Grades	--	--	+W202 +W282 +W262	+ N202 + N282	+ I202 + I282 + I262	+ T272 + T282 + T202	+ L352 + L322	+ E202 + E282 + E262
3	CaCO ₃ D50 Particle size	Laser diffraction	μ	1-3	1-3	1-3	1-3	1-3	1-3
4	Melt Flow Index (2.16kg/230°C)	ASTM D1238	g/10 mins	5-7	30-35	8-12	10-15	25-30	4-6
5	Specific Gravity Density	ASTM D1505	g/cm ³	1.8±0.5	1.8±0.5	1.8±0.5	1.8±0.5	1.8±0.5	1.8±0.5
6	Moisture (Max)	Precisa	%	0.1	0.1	0.1	0.1	0.1	0.1

*Note: We can supply many other different grades of Filler Masterbatch depending on client's specification requirement. We are also pleased to provide samples for trial in your own facility.

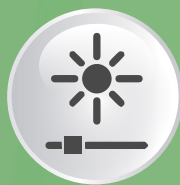
WHITE MASTERBATCH



Key Benefits



High
opacity



Improve
whiteness
& lightness



Absorb
UV light

No	Index	Test Method	Unit	Typical Value
1	Carrier	---	---	LLDPE/PP/PET
2	TiO ₂	--	%	10-70
3	Processing Temperature	DCS	°C	150
4	Melt Flow Index (2.16kg/190°C)	ASTM D1238	g/10 mins	15-20
5	Density	ASTM D1505	g/cm ³	1.80±0.5
6	Moisture	ASTM D644	%	0.1 max
7	Shape	---	Granule	2~3mm
8	Recommended usage rate	---	%	2-10%

HDPE Blow Molding



PP Injection Molding



PP Woven & Nonwoven Bags



PE Shopping Bags & Garbage Bags



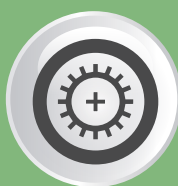
BLACK MASTERBATCH



Key Benefits



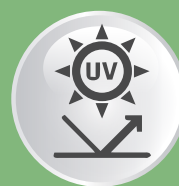
Great dispersion



High color fastness



Thermal resistance



Improve UV resistance

No	Index	Test Method	Unit	Typical Value
1	Carrier	---	---	LLDPE/PP/PET
2	Black Carbon	---	%	10-50
3	Melt Temperature	---	°C	150
4	Melt Flow Index (2.16kg/190°C)	ASTM D1238	g/10 mins	15-20
5	Density	ASTM D1505	g/cm ³	1.33±0.5
6	Moisture	ASTM D644	%	0.1 max
7	Shape	---	Granule	2~3mm
8	Recommended usage rate	---	%	2-5%

HDPE Pipe



PP Woven & Nonwoven Bags



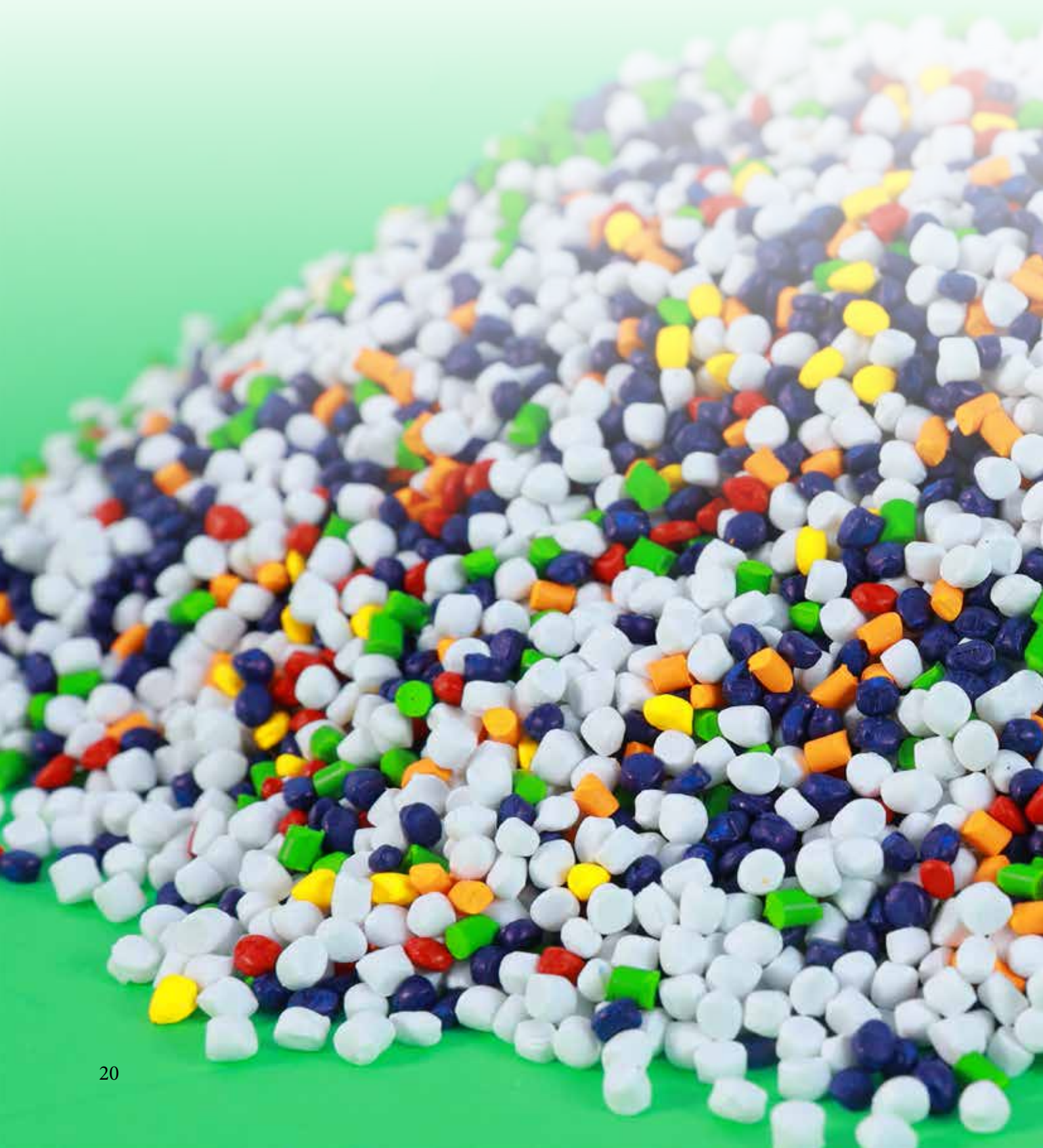
PP Injection & Thermoforming



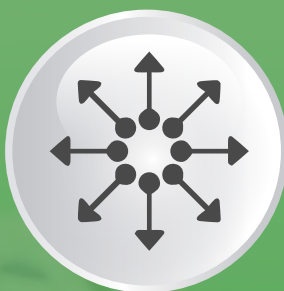
PE Shopping Bags &



COLOR MASTERBATCH



Key Benefits



Great
dispersion



Improve
properties



High color
fastness



Various color
shades

COLOR MASTERBATCH

Applications

Blown Film



PP Woven/Raffia



PP Nonwoven



PP Injection Molding



Blow Molding



Extrusion



ENHANCING THE PHYSICAL PROPERTIES OF PLASTIC PRODUCTS

Color masterbatch can enhance the physical properties of plastic products, including lightfastness and thermal stability, contributing to the product's value enhancement and competitive edge in the market. For plastic manufacturers, choosing and using the right color masterbatch is not just a step towards improving product quality but also a strategy for brand positioning, helping the product stand out and attract consumers in an increasingly aesthetic and quality - conscious market.

Why Choose Mega Plast's Color Masterbatch?

Consistent Colors	Easy to Use and Flexible	Improves Product Features	Saves Materials
Color masterbatch helps plastic products have the same color from one batch to another, keeping products looking nice and high quality.	With color masterbatch, manufacturers can easily change colors without having to switch up the whole process, saving time and effort.	Some color masterbatch is designed to make plastic products more durable against sunlight, chemicals, and high temperatures.	Using color masterbatch reduces because it allows for precise measurements and easy adjustments, which helps save costs.

No	Index	Test Method	Unit	Typical Value
1	Carrier	---	---	LLDPE/PP/PET
2	Pigment content	---	%	10-45
3	Melt Temperature	---	°C	110-130
4	Melt Flow Index (2.16kg/190°C)	ASTM D1238	g/10 mins	15-20
5	Density	ASTM D792	g/cm ³	1.8±0.5
6	Moisture	ASTM D644	%	0.1 max
7	Shape	---	Granule	2~3mm
8	Color			Blue, Green, Yellow, Red, Orange, Beige, Purple...

* We can customize & supply different types of Color Masterbatch depending on the client's specification requirement.

DESICCANT MASTERBATCH



Key Benefits



Remove
Moisture



Cuts out the
oxidizing effect



Low Dosage
rate: 1-2%

Items	Test Method	Unit	Standard
Calcium Oxide content	ASTM D 5630	wt %	75±2
Melt Flow Index (2.16kg/190°C)	ASTM D 1238	g/10 mins	≥ 1
Melt Temperature	DSC	°C	120
Bulk density	ASTM D1895	g/cm ³	1.1±0.5
Water Content	ASTM D 644	wt %	0

Blow Film



PP Injection Molding



Sheet/ Pipe Extrusion



PP Woven/Raffia



ADDITIVE MASTERBATCH



Grade: NH OB-03

Optical Brightener Masterbatch

Reduce yellowing, brightener whiteness, and enhance the brightness



Grade: NH BIO-ST01

Bio Masterbatch

Solutions for the sustainable market. Meet latest biodegradability and composability regulations and requirements



Grade: NH PPA02

Processing-Aid Masterbatch

Enhance the melting processability, and handling of high molecular weight plastics



Grade: NH UV04Y

Anti-UV Masterbatch

Prevent UV light's negative impacts on end-products and Maintain end products' mechanical properties and improve end-products' durability.



Grade: NH ATB01

Anti-Block Masterbatch

Improve the handling, solve the blocking problem and upgrade plastic products to reach maximum efficiency



Grade: NH GF60

Fiber Glass Compound

Improve Strength, impact resistance and Weather Resistance

Beside mentioned Additive Masterbatch, we can supply many different types of Additive masterbatch depending on client's specification requirements, such as: Flame retardant additives, Antioxidant Masterbatch, Polymer processing additives, Cling additives masterbatch, PET Masterbatch, Transparent Filler masterbatch...

PACKING & LOADING SOLUTION



CERTIFICATIONS

Thanks to the advantages of our own Calcium Carbonate powder factories, we commit customers to the most competitive prices and highest quality products.

Our Masterbatch are approved for use in food contact packaging: without heavy metal, meeting Halal certification and REACH standards complying with EU regulations.



MARKET & TRADE FAIR



CHINAPLAS



K-FAIR (EU)



IPF Bangladesh



ARABPLAST



PLASTINDIA



COMPLAST



NHAT HUY GROUP
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Website



WhatsApp



Wechat