



HIGHADD[®] HIGHPURE[®]

Masterbatch Solutions for PE Films



HIGH GRADE INDUSTRIES

www.highgrade.in



“ Our Mission is to be a leading solution provider for the stabilization of Plastics & to engage in the development of products for the Polymer Processing, Packaging & Textile Industries. ”

ABOUT US

We are a group of technocrats and professionals engaged in the business of Polymer Stabilization & providing Industrial solutions for Plastics in the form of Additives and Concentrates.

M/s High Grade Industries (I) Pvt. Ltd. is a manufacturing company founded by Mr. G. S. Kohli in the Year 2000, engaged in the manufacturing of Plastic Additives and Plastic Masterbatches/Compounds with an annual manufacturing capacity of 3,000 MT per annum of Additives & 50,000 MT per annum of Masterbatches/Compounds.

We are based in Mumbai with manufacturing facilities in Silvassa, D&NH, ably supported by a sales network across India.

Our current major markets are the domestic market of India and exports to over 14 countries encompassing Asia, South East Asia, Africa & Europe.

Our group company, **M/s Solaris Speciality Chemicals Pvt. Ltd.** is also engaged in the manufacturing of masterbatches.

All the operations of the group viz, the Corporate offices, Manufacturing facilities are fully owned by the founder promoters – the Kohli Family.

Our total group revenue in the year 2022-23 was 60 million USD.

MASTERBATCH SOLUTIONS FOR THE PACKAGING INDUSTRY

At High Grade, we have always endeavoured to be at the forefront of providing masterbatch solutions for the flexible packaging industry.

We have a wide range of products for Biaxially Oriented film industries like BOPP, BOPE and BOPET. In addition, we also manufacture products for Cast film industries like CPP and CPE.

We have recently developed products for Extrusion Coating applications and have a large segment of products for Blow film industries.

We manufacture the following products for the packaging industry:

HIGHADD[®]

Additive Masterbatches for PE Films

HIGHPURE[®]

White & Black Masterbatches for PE Films

We have a state-of art manufacturing facility complimented by our Technology Centre which aids in the development of new products for the Packaging industry.

Our total installed capacity for Masterbatches for the packaging industry is 30,000 Tons.

*As of March 2022, our **HIGHADD**[®] products are listed in the "Approved" Category in the Brückner Maschinenbau GmbH Recommendation list for BOPP Film Raw Materials, making us the 1st and Only Indian Company and only the 4th Company Globally to be given this recognition.*



HIGHADD®

Additives impart various properties in PE films. We manufacture the following Additive masterbatches:

ADDITIVE MASTERBATCHES FOR PE FILMS



ANTI-BLOCK

Product	Description	Details
BLOCK 05B	5% Synthetic Silica	High purity antiblock additive
BLOCK 406B	30% Natural Silica	Standard antiblock additive, based on diatomaceous earth silica
BLOCK 408B	40% Natural Silica	Standard antiblock additive, based on diatomaceous earth silica
BLOCK MT 215B	20% Silicate	High purity antiblock, alternate to natural silica
BLOCK OR01B	5% Organic Antiblock	4 micron organic antiblock, High Clarity, Low COF
BLOCK OR14B	5% Organic Antiblock	6 micron organic antiblock for thick skin layers, High Clarity, Low COF
BLOCK 5011B	5% Proprietary	4 micron antiblock, Very Low COF, High Clarity

SLIP – ANTIBLOCK COMBINATION

Product	Description	Details
SLIP 101C	5% Erucamide	Slow migrating slip agent
SLIP 201C	5% Oleamide	Fast migrating slip agent
BS 1121BB	5% Erucamide, 10% Silica	Well-balanced slip and antiblocking additive with slow migration slip additive
BS 2121BB	5% Oleamide, 10% Silica	Well-balanced slip and antiblocking additive with fast migration slip additive

ANTISTATIC

Product	Description	Details
ASC 104B	20% Antistatic agents	Standard antistatic additive for films and sheets

ANTIFOG

Product	Description	Details
AFG 9104B	20% Anti Fog agents	Highly efficient Antifog Barrier for Co-Ex Multilayer Blown film, for refrigerated or heated food packaging

PROCESSING AIDS

Product	Description	Details
PPA2 X3B	3% Fluoroelastomer	Highly effective synergistic processing aid additive, suitable for process conditions of up to 230C
PPA 302B	10% active	Streate based processing additive

UV

Product	Description	Details
UV 104B	20% Active Ingredients	General purpose UV for films, sheet , FIBC applications
UV 404B	20% Active ingredients	High concentrate UV for food approved
UV 504B	20% Active ingredients	High molecular weight UV for films, FIBC applications
UV AG04B	20% Active Ingredients	Special Sulphur resistance UV for Greenhouse films
UV 1003B	15% Active Ingredients	UV absorber based product for Greenhouse films, special applications
UV 804B	20% Active Ingredients	UV absorber based product for Greenhouse films, special applications
UV NIZ 1100B	20% Active Ingredients	Nickel Quencher based UV for Greenhouse films, straps
UVW 12050	70% Active Ingredients	UV + Whitening agents for FIBC application

ANTIOXIDANT

Product	Description	Details
AO 204B	20% Synergistic combination of antioxidants	Antioxidant additive for the processing of PE films. Retains color and prevents gels formation in the film. Suitable to maintain MFI of recycled materials

A detailed product catalogue highlighting the different grades is also available and can be downloaded from our website, www.highgrade.in

HIGHPURE®

WHITE MASTERBATCHES FOR PE FILMS

White Masterbatches are used in the to provide opacity and whiteness in the intended application.

Our HIGHPURE range of White Masterbatches are used for a variety of applications such in PE Films such as Cast Films, Multilayer Blown Films, Extrusion Coating and Lamination, FIBC and Shrink & Stretch films.

We manufacture a wide range of polyolefin White Masterbatches for PE Films with a TiO₂ concentration up to 75 %.



Grade	Active Content	Applications/Processes				
		CPE Films	FIBC	Multilayer Films	Extrusion Coating	Lamination
W 8177EC	50%				•	
W 12B	60%		•	•		•
W 1247B	60%	•				
W 1105BOBB	65%			•		•
W 1447B	70%	•		•		
W 70B	70%		•	•		•
W 1457B	75%			•		•

BLACK MASTERBATCHES FOR PE FILMS

Black masterbatches are used to impart blackness in the final application. We manufacture a variety of speciality black masterbatches for PE films ranging from 30% to 50% carbon concentration



Grade	Active Content	Applications/Processes		
		Mulch Films	Multilayer Films	Lamination
BL 3800	40%	•		
BL 3100	50%	•		
BL 5800	40%		•	
BL 5100	50%		•	
BL 2800	40%	•		•

TECHNOLOGY CENTRE

The Technology Centre is at our factory in Silvassa, India where we innovate, test and certify our products. It comprises of 3 Laboratories:

- Quality Control
- Application Development
- Analytical

QUALITY CONTROL

Our Quality Control department comprises of standard procedures to test basic quality measures of both our Raw Materials and Finished Products.

Our quality measuring system comprises of Chemical, Physical and Application based testing to ensure the customer gets the desired quality and performance with each lot of material dispatched. This helps us in maintain a company policy of “Zero” Quality Issues.



ANALYTICAL

The analytical laboratory evaluates help us to evaluate our products in depth with instruments such as Spectrophotometers, COF tester, Polarizing Microscope, Haze Meter, DSC, TGA, Potentiometric Titrators and Moisture Karl Fischer testers among others.



APPLICATION DEVELOPMENT

Our application developmental laboratory caters to variety of applications such as Textiles, Packaging Films (BOPP, CPP, BOPET, PE films) , Molding, Rigid Packaging, & Automotive.

This Laboratory consists of various equipments intended to check the suitability of our products in the final application.



Cast Film Line

At High Grade Industries we have invested USD 2 Million in the last 5 years to enhance our R&D facilities and continue to look at various avenues to further improve our facilities.

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