



POLYFILL
TECHNOLOGIES LLP

Manufacturers of PIB Compound & Additive Masterbatches

WHERE QUALITY PREVAILS



*The Only Manufacturer of PIB Compound
from India Since Two Decades.*

About Us

The company was established in the year 2004 in the famous industrial town, Vadodara (400 kms from Mumbai), Gujarat, India, with its manufacturing plant located at G.I.D.C. Ranoli (15 kms from Vadodara). The company is engaged in the manufacturing activity of **PIB Compound & Additive Masterbatches** for the various plastic & packaging applications.

These compounds have a great demand as a value added additive in various industrial segments like Film Packaging Applications, lamination & Tape Plants, Injection Molding Applications, Wires & Cables Application, Engineering & Automotive Applications and many more.

Within a very short span of time the company has gained very good reputation in the local as well as international market by achieving remarkable growth in sales as well as the quality.



Manufacturing Activity

The company is equipped with the extrusion plant of the latest technology & state-of-art machineries to produce the very fine blend of Specialty Additive Masterbatches & Compounds. The present installed capacity of the plant is 8000 MT per annum.

Quality Control

To remain in pace with the fast growing world the company constantly does the research & development work to meet the buyers needs. The quality of the compound being produced is continuously checked for the Purity, MFI, Whiteness, Strength, Elongation, during the online production process.

Management

Being manufacturer of Specialty Additive Masterbatches & Compounds, Polyfill Technologies LLP, is managed by the team of highly skilled professional in the field of Management, Production, Plastics Engineering, and Mineralogy. The company also has the well-equipped laboratory managed by trained staff to look after the quality & product development. Because of the emphasis on the quality and innovative product development, company aims to become the preferred supplier by remaining alert to customer's changing needs and responding with speed, skill and assurance. We also have special R & D Division for the development of new generation plastic compounds.



Lower System Costs

- » One-step co-extrusion process using pelletized compounds
- » Eliminates multi-step coating and drying steps required of conventional, solvent cast films
- » Purchase / production of backing film (as used in the coating process) is not required
- » Does not require expensive ovens.

Features & Benefits

- » Sustains tack on curved and textured surfaces
- » Tailored peel strength (~ 0.5 - 6.5 N/25 mm)
- » Adheres to a wide variety of substrates chemistries and topographies



Protection Film Additive Masterbatch

Protection Films Additive Masterbatch are used in a broad range of metal and plastic fabrication industries to Preserve the exterior condition of intermediate material and finished consumer products.

Polyfill Technologies offers the latest advancement in adhesive polymers for surface protection films.

Protection Film Additive Masterbatch from Polyfill Technologies provides superior protection for finished goods in many industries and end-user applications. These include automotive, consumer electronics, home appliances, construction, plastic lamination, furniture, glass and mirrors, and many metals both finished and unfinished.

Typical Protective Film Structure

Adhesive Layer	Polyfill's Protective Film Additive Masterbatch (3~8 μ m)
Core layer	PE/PP (30~40 μ m)
Backing Layer	PE/PP + Antiblock Agent (5~10 μ m)

- » A typical Protective Film is 3 layers (A+B+C) & 50~70 μ m thick.
- » A - Adhesive layer usually 5~10 μ m thick
- » B - Core layer (LDPE/PP) 40~50 μ m thick
- » C - Outside Layer (PP, HDPE or LDPE/HDPE blend) 5~10 μ m thickness

Outside Layer can also contain Antiblock. The use of HDPE and Antiblock in this layer will aid in the unwinding of the finished roll.

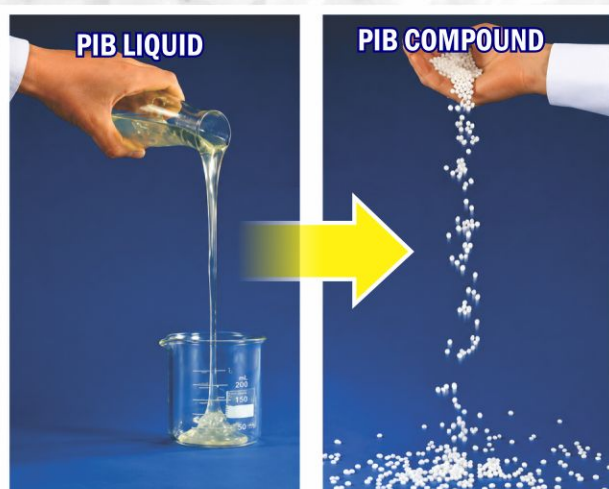
Rheology match is needed for each individual layer of the film!!

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**The Technology
at your doorstep.**
"Making Process Simpler."

From Liquid to Pellets



PIB Compound

Stretch Film / Cling Masterbatch

Polyfill's **PIB Compound** is a concentrate of very high molecular weight Polyisobutylene tackifier and Linera Low Density Polyethylene. It contains the blend of Poly-Iso-Butylene & Special additive dispersed in the polymer matrix, made in the state of the art plant to give excellent performance in extreme climatic conditions. The composition is used as a Cling Agent to produce Stretchwrap films from LLDPE or LDPE. It is in the form of dry free flowing pellets.

PIB Compound is mainly used in LLDPE / LDPE self adhesive Stretch Film, Cling Film, & Wrap Film (either Blown Film or Cast Film) and it is available in granule form.

PIB Compound is available in the granule form which is very easy to handle as against the direct dosing of PIB liquid which is very difficult & tedious to handle due to high viscosity. Our PIB Compound distributes very uniformly over the entire film imparting the strength & tackiness properties to the film with self adhesive properties. And this property of the film helps to bind the packages together with proper grip. In multi-layer films, PIB Compound is used only in one layer, the upper layer and the adding ratio is determined by the film thickness and on the layer to be used.

Specifications & Grades

SPECS. / GRADES	PT-60	PT-66	TACKIFIER
Appearance	Natural Translucent Pellets	Natural Translucent Pellets	Natural Translucent Pellets
Active Ingredient	60% (+/-1 %)	66% (+/-1 %)	Equivalent to 70%
Compatibility	LDPE, LLDPE, PP, PP, EVA etc.	LDPE, LLDPE, PP, PP, EVA etc.	LDPE, LLDPE, PP, PP, EVA etc.
Loose Bulk Density	0.45 ~ 0.50 gms/cm ³	0.45 ~ 0.50 gms/cm ³	0.45 ~ 0.50 gms/cm ³
Specific Gravity	0.910~ 0.920 gms/cm ³	0.910~ 0.920 gms/cm ³	0.910~ 0.920 gms/cm ³
Application	Manual / Machine Wrap Stretch Film	Manual / Machine Wrap Stretch Film	Manual / Machine Wrap Stretch Film
Recommendation of Process	Cast/Blown Film Line	Cast/Blown Film Line	CastLine (Low Noise Effect)

Addition Levels

Cling films made from our PIB Compounds are most economical and the quality of the film coverage increases on stretching. The loading of PIB master batch varies from 1% to 6% depending upon the type of the film plant (Blown or Cast Line) installed.

We suggest the following addition level based on the test results from outdoor weathering tests and from practical experience:

- » **Multilayer Blown Film Application: 4 to 6 %**
- » **Multilayer Cast Film Application: 1 to 3 %**

The above dosages are for guidance only. Actual condition may vary from film to film, process to process and also upon the thickness of the film and its specific uses.

Material Mixing

To get the best results in case of extrusion, it is advisable to mix the material thoroughly before feeding in a hopper.



Multilayer Cast Film Line



Multilayer Blown Film Line

Applications



Stretch Film



Cling Films



Pallet Wrapping
Films



Food Packaging
Films



Agricultural
Films



Industrial &
Protective Films

Storage

There should be no problems in storing of PIB Compound. The storage life of the compound is Twelve Months at 25°C, although not very sensitive to heat and humidity, proper storage will prolong the storage life of the product.



Packing

- » 25 Kg. PE lined moisture proof heavy duty PP Woven bags with Liner.

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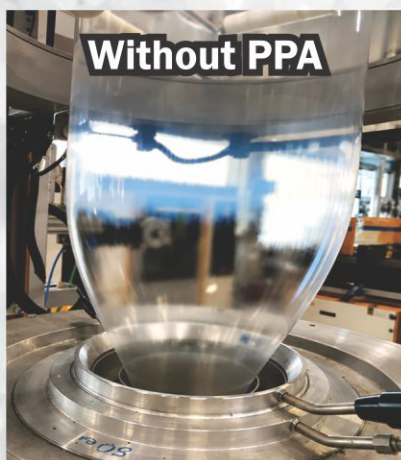


PPA Masterbatch



Polyfill's Natural Polymer Processing Aid Masterbatch - PPA is a new generation, highly technical product, suitable for controlling and eliminating the problem of Melt Fracture or Shark Skin Effect, during the process of LLDPE/LDPE/HM – HDPE/PP by extrusion process.

Melt Fracture is generally the surface imperfection seen as a regular ridged surface with ridges running perpendicular to the extrusion direction especially in films, which is also known as "Shark Skin Effect".



Advantages

- » PPA MB can offer performance and cost advantage. It exhibits exceptional commercial utility in low melt index film grade LLDPE, HDPE, HMHDPE. It is especially effective in Polyolefin Resins containing talc and silica based Anti blocking agents, TiO₂ based pigment and other inorganic additives. It can also be used at low levels to reduce extruder Die built up when processing LLDPE, Eva and other Polyolefin resins.
- » PPA MB is designed for use at a very low level to improve processing of thermoplastics. It does not alter or detract from the good physical properties associated with high strength plastic.
- » PPA MB lowers apparent melt viscosity and permits processors to use high strength resins which otherwise could not be processed on available equipment. Now, with the aid of PPA MB fabricators can produce films of improved strength and quality. As Polymer processing additive, this Masterbatch can reduce or eliminate Melt Fracture and can reduce extruder torque.
- » Through optimisation of the extrusion process, the use of PPA MB can also lead to an increase in output and yield films with enhanced and bi-directional physical properties and improved clarity and gloss.

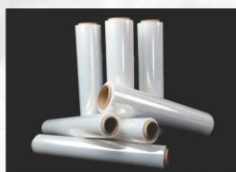
Specifications & Grades

SPECS. / GRADES	Polymer Processing AID PT-3000	Polymer Processing AID PT-5000
Form	Granuler	Granuler
Colour	Clear	Clear
Active Ingredients - PPA	3%	5%
Inorganic Additive	3%	3%
Polymer-LLDPE (50 mfi)	94%	92%

Features

- » Broadens extrusion processing capabilities of polyolefin resins.
- » Reduces or eliminates Die built up.
- » Lowers apparent Melt Viscosity.
- » Ideal for use in low MFI LLDPE, HDPE & high molecular weight HDPE resins.
- » For use at low levels.
- » Can offer performance & cost advantages.
- » Imparts a smooth, glossy and even surface to the extrudated / film.
- » Allows the process film with narrow die gap which results in balance of bi-directional
- » properties and hence, more uniformity in film thickness and coating guage.
- » Reduces the wear and tear of the melt line, as a result increases the life of the processing equipment.
- » Reduces the chance of degradation of polymer and colours as it lowers the resistance time of melt through faster plastication.
- » Lowers the processing temp., hence reduces electrical energy consumption by 5-15%.
- » Reduces the melt COF and hence there is an increase in output rate by about 10-15%.

Applications



Stretch Film



Shrink Films



Industrial Films

Dosage

PPA Masterbatch is to be mixed with polymers in a dosage of 0.5 – 2% for LLDPE / PP / HDPE. Generally the 0.5% use of this Masterbatch gives a good result for processing film.

Storage

There should be no problems in storing of PPA MASTERBATCH. The storage life of the compound is Twelve Months at 25°C, although not very sensitive to heat and humidity, proper storage will prolong the storage life of the product.

Packing

- » 25 Kg. PE lined moisture proof heavy duty PP Woven bags with Liner.

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Antifog Masterbatch

ANTIFOG MASTERBATCH is based on Organic compound derived from vegetative sources anchored in the polymers. It is mainly used for prevention of fogging on film surfaces at very low temperatures.



Without Antifog
With Condensation



With Antifog
Without Condensation

Usage

5% to 15% depending upon the end product to be manufactured & its application.

Features

- » Prevents fogging on the film surfaces at low temperatures.
- » Maintains visibility of packed foods.
- » Human safe & Ecologically safe.
- » Compatible with respective polymers.

Specifications

PROPERTIES	VALUES
Grade	PT-15 PE
Appearance	Translucent White coloured granuels
% Antifog (active ingredient)	15 %
Loose Bulk Density	0.62 ~ 0.64 gms/cm ³
Odour	Odourless
Solubility	Insoluble in Water & Solvents
Stability	Stable at ambient temperature under normal conditions of use.

Effect of Antifog Masterbatch on Film

Antifog Masterbatch was evaluated for hot & cold fog properties in LLDPE film @ 1% active content. The test was carried out as follows –

Hot fog test was carried out at 60° C for 3 hours, and Cold fog test was carried out at 4° C for 7 days. At the end of the test the rating was given as follows –

Hot Fog and Cold Fog Rating on Film Thickness of 100 µm

SAMPLE PERFORMANCE	STAR RATING		
	HOT FOG	COLD FOG	
LLDPE with Masterbatch	5	4	
Star Rating			
DESCRIPTION	RATING		PERFORMANCE
A transparent Film / No Visible water	5		EXCELLENT
Randomly Scattered, Large transparent drops	4		GOOD
A Complete layer of Large transparent drops	3		POOR
An Opaque or Transparent layer of large drops	2		POOR
An Opaque layer of small fog droplets	1		VERY POOR

Applications



Food Packaging Films



Fresh Produce Packaging



Fruit Packaging



Meat & Seafood Packaging

Storage

There should be no problems in storing of ANTIFOG MASTERBATCH. The storage life of the compound is Twelve Months at 25°C, although not very sensitive to heat and humidity, proper storage will prolong the storage life of the product.

Packing

- » 25 Kg. PE lined moisture proof heavy duty PP Woven bags with Liner.

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Slip Masterbatch

Features

- » Reduces frictional resistance between two plastic films and between plastic and metal parts.
- » SLIP Masterbatch makes processing more efficient with higher productivity and improved quality.
- » In polyolefin film production, SLIP Masterbatch facilitates increased line speed in manufacturing process and enhances packaging machine operation due to reduced COF.
- » Ensures good handling properties in automatic packaging machines.

Applications

- » Slip Additive Masterbatch is applicable to all processors from industries like Packaging (Monolayer & Multilayer flexible Packaging Film), Moulding, Agricultural Films, Bubble Films etc.
- » Slip Additive Masterbatch is highly recommended for the use as demoulding agents in injection moulding application.

Usage

Dosage is 1 ~ 5 % depending on the end use application. Below is our ideal recommendation » For Low Slip : 1~2% » For Medium Slip : 2~3% » For High Slip : 4~5

Storage

There should be no problems in storing of **Slip Additive Masterbatch**. The storage life of the compound is Twelve Months at 25°C, although not very sensitive to heat and humidity, proper storage will prolong the storage life of the product.

Packing

- » 25 Kg. PE lined moisture proof heavy duty HDPE Woven bags.

Slip Additive Masterbatch is based on highly purified Erucamide in LLDPE carrier resin and compounded in most modern extrusion equipment using state-of-art technology. The slip additives chosen are upto 220°C and are recommended for use where high temperature processing is required. **Slip Additive Masterbatch** is a material which when added to the polymer, while processing into flat profiles like film, sheet etc., reduces the co-efficient of friction (COF) of the surfaces. It is particularly used while manufacturing film for the packaging applications like Bubble Film, where Film to the metal as well as film to film friction is required to be controlled.

Specifications

APPEARANCE	MILKY OPAQUE GRANUELS
Grade	PT-SL-05
% SLIP (Active Ingredient)	5 %
Loose Bulk Density	0.55 ~ 0.60 gms/cm ³
Melt Index@ 190°C/2.16 Kg	Approx. 20 ± 5 gms/10 min
Carrier Resin	LD / LLDPE – 95%
Heat Stability	Thermally stable under normal processing conditions.

Applications



Bubble Film



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Advantages

- » Improves the stabilization of product.
- » As addition to plastic products to help them resist breakdown when they are used outdoors.
- » To prevents of Loss of strength, stiffness or flexibility of product
- » To prevent Discoloration and loss of gloss of product.
- » Support maximum polymer protection against UV degradation and long-term heat exposure.
- » Long life » No adverse effect on Properties.
- » It is used to resist the pesticide in Agriculture application.
- » It is chemical resistant » Superior Strength
- » It is contributor to plant protection, growth, and productivity.
- » Light Transmission » Thermic Effect

Recommended Addition

UV Masterbatch PT-UV20 is approved for the use in contact with foodstuffs according to FDA and BgVV regulations, as long as the dosing level of the masterbatch is less than 3%.

Storage

There should be no problems in storing of UV Masterbatch PT-UV20. The storage life of the compound is Twelve Months at 25°C, although not very sensitive to heat and humidity, proper storage will prolong the storage life of the product.

Packing

- » 25 Kg. PE lined moisture proof heavy duty PP Woven bags with Liner.

UV Masterbatch

UV Masterbatch PT-UV20 is an LLDPE based masterbatch giving very good protection against the degradation of plastics by UV light. PT-UV20 is especially recommended for the applications in agriculture, industrial and food packaging, and very much compatible with polymers such as PE, PP, EVA. It can also be used with thin products such as films, tapes, pipes and fabrics. The active ingredient consists of a combination of different HALS (Hindered Amine Light Stabilizer) additives, which gives the most effective light stabilization effect already at low dosages.

Specifications

APPEARANCE	TRANSPARENT GRANUELS
Grade	PT-UV20
Carrier Polymer	LLDPE
Active Ingredient	20 %
Loose Bulk Density	0.90 gms/cm ³
Temperature Stability	< 260 °C
Dosage	0.5 ~ 3.0 % Max
Moisture (at works)	< 0.30 %

Applications



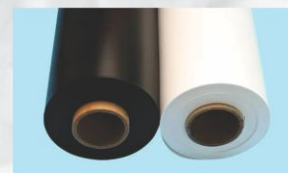
Greenhouse Films



Mulch Films



Car Protective Film



All Outdoor Films

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TiO₂ White Masterbatch

Polyfill's TiO₂ White Masterbatch PT-2070, 70% loaded, is manufactured by blending high quality TiO₂ powder in polyethylene of high melt flow index in presence of additives like Antioxidant, Dispersing agent and Dessiccant. PT-2070 has been specially designed for Poly film, Injection Moulding and Extrusion process.

Special Characteristics

PT-2070, TiO₂ White Masterbatch has been designed to impart the following special properties

- » Excellent Brightness
- » Excellent Dispersion
- » Easy Processing
- » Resistance to Yellowing

Technical Characteristics

PROPERTIES	VALUES
Grade	PT-2070
MFI	10 ~ 20 gms/10 min
TiO ₂ Content (Rutile)	69 ~ 72 %
Loose Bulk Density	1.65 gms/cc
Colour (Photospectrometer)	White
Chemical Resistance	Excellent
Light Fastness	8 (Very Good)
Temperature Stability	< 260° C
Moisture (Ex-Works)	0.15 % When Packed

We have TiO₂ grades available from 50% to 70%

Benefits

The major benefits of using 70% loaded TiO₂ Masterbatch PT-2070 are:

- » Improved mechanical properties, surface finish and gloss due to thorough TiO₂ dispersion.
- » Easy handling, weighing and proportionating because of their uniform pelletised form.
- » Greater economy in use because of their higher TiO₂ loading and higher colour development.
- » No contamination or health hazard because of their non dusting nature.

Calculating the Cost of Masterbatch in Processing

The cost of colouring a polymer (Expressed in Rs/kg) with Polyfill Masterbatch can be easily calculated with the simple formula given below:

$$\text{Colouring Cost} = \frac{\text{Additional level} \times (\text{Masterbatch Cost} - \text{Polymer cost})}{\text{Total Material Consumed}}$$

The opacity of a product depends upon the TiO₂ content in the final product.

Application

PT-2070 TiO₂ Masterbatch is intended for direct colouring of all polyolefin products manufactured on Plastic extrusion processing machinery.

- » Blown films
- » Blow Moulding
- » Box Strapping
- » Cast & Oriented films / Silage Stretch Wrap Film
- » Extrusion Coating
- » Injection Moulding
- » Pipes & Tubings
- » Rafia Tapes

Applications



Blown Films



Blow Moulding



Injection Moulding



Shopping Bags



Carry Bags

Storage

There should be no problems in storing of TiO₂ WHITE MASTERBATCH. The storage life of the compound is Twelve Months at 25°C, although not very sensitive to heat and humidity, proper storage will prolong the storage life of the product.

Packing

- » 25 Kg. PE lined moisture proof heavy duty PP Woven bags with Liner.

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Antistatic Masterbatch

Features

Antistatic Masterbatch, an internal antistatic agent acts in two ways:

- » Builds up conductive path to bring charged particles into contact.
- » As a lubricant or mould- release agent in the post extrusion process.

Antistatic Masterbatch is incorporated into the polymer during the extrusion process. Upon extrusion, the additive Masterbatch migrates to the surface of the film because of its definite incompatibility with the polymer. Then it builds up a uniform layer on the film / product surface and prevents the building up of static electricity. It also reduces surface resistivity by migrating to the surface and absorbing moisture from the air.

Usage

5 ~ 20 % depending upon the specific end usage applications and the thickness of the finished products.

Storage

There should be no problems in storing of Antistatic Masterbatch. The storage life of the compound is Twelve Months at 25°C, although not very sensitive to heat and humidity, proper storage will prolong the storage life of the product.

Packing

- » 25 Kg. PE lined moisture proof heavy duty PP Woven bags with Liner.

Polyfill's Antistatic Masterbatch is a surface property modifier, which now-a-days finds extensive use by Plastics Processor, to reduce and control the static charges developed on the surface of plastic parts having large surfaces like film, fibres etc as spark discharge formed by static charges can produce serious accidents. Plastics, particularly sensitive to static build up Polyolefins, Nylon, Polyesters, Urethanes, Cellulosics, Acrylics etc. Antistatic Masterbatch is based on Ethoxy Amine, using LLDPE as a carrier resin, compounded in most modern extrusion equipment, using state of art technology.

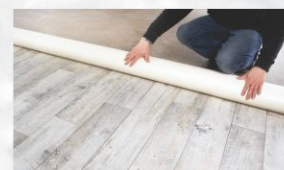
Specifications

APPEARANCE	CLEAR GRANULES
% Antistatic (Active Ingredient)	15 %
Loose Bulk Density	0.55 ~ 0.60 gms/cm ³
Inorganic Additives	3 %
Carrier Resin	LD / LLDPE – 82 %

Applications



Packaging Films



Flooring Application



Industrial Films



Electrical Application

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Wire & Cable Compounds



XLPE Compounds

POLYFILL XLPE Compounds are silane grafted cross linkable polyethylene compound, for insulation of power cables and possessing excellent extrudability at high output rate. XLPE has good mechanical properties and good resistance to abrasion coupled with excellent dielectric properties.

HFFR / ZHFR / LSZH Compounds

HFFR/ZHFR/LSZH-Zero Halogen based low smoke/Flame retardant insulation and sheathing compound.



E_Beam Compounds

Compound crosslinked by E Beam technology suitable for application like solar cable, EV charging cable, UL cable from 105°C to 150°C, house wire, oil resistant cable.

XL_ZHFR Compounds (XLPO Compounds)

Silane crosslinked direct extrudable compound for solar cable, EV charging cable, UL cable, Auto cable, House wire, long life (70 years) cable, from 105°C to 150°C application with flame retardant & oil-resistant properties.



Semicon Compounds

POLYFILL's semiconducting compound acts as an electrical stress-smoothing shield layer inside power cables. Its high heat and deformation resistance, controlled electrical conductivity, and crack prevention ensure long-term insulation stability under heavy voltage loads.

Our Global Presence



Algeria	Nigeria
Bahrain	Peru
China	Qatar
Colombia	Russia
Congo	Saudi Arabia
Egypt	Sri Lanka
Ethiopia	South Africa
France	South Korea
Ghana	Syria
Hungary	Tanzania
Jordan	Turkey
Kenya	UAE
Kuwait	Uganda
Lebanon	UK
Mexico	USA
Nepal	Zambia

Our Product Range

- » PIB Compound / Stretch Film & Cling Masterbatch
- » Protection Film Additive Masterbatch
- » PPA Additive Masterbatch
- » Anti Fog Additive Masterbatch
- » Slip Additive Masterbatch
- » UV Additive Masterbatch
- » TiO2 White Masterbatch
- » Antistatic Additive Masterbatch
- » XLPE & Cable Compound
- » Brightner Masterbatch
- » Black Masterbatch

**An ISO 9001:2015
Certified Company**



**Government
Recognized
Star Export House**



more detail visit us
www.polyfill.co.in



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