

# INDUSTRIAL GENERAL CATALOG





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ZARIFMOSAVAR  
INDUSTRIAL



“THE  
VARIETY OF  
NATURE'S  
COLOURS”  
Textile Industry

“TIS  
MASTERBATCH”  
Textile & Plastic Industry

[www.tismasterbatch.com](http://www.tismasterbatch.com)



# ABOUT US

TIS Company (TISCO), as one of the subsidiaries of Zarif Mosavar Industrial Group, is a high technology enterprise specialized in researching, developing, processing and producing different kinds of Masterbatches, particularly ones being used in fiber and textile industries. TISCO was established in 1999 and its preliminary purpose was to produce the needed Masterbatch for the fiber production lines of Zarif Mosavar Industrial Group.

Today, TISCO gladly satisfies its domestic and international customers by offering solutions for technical issues and providing them with standard and tailor-made colors. Our experience gained over the years enables us to produce high quality Masterbatch with different polymer bases including Polyethylene (PE), Polypropylene (PP), Polyester (PET), and Polyamide (PA) with various applications such as fibers, woven & non-woven bags, polymer pipes, film, sheets, injection and many more.



# PRODUCTS

## INFO

TISCO has classified its products into 4 categories as follows:

- Colour Masterbatch
- Black Masterbatch
- White Masterbatch
- Additive Masterbatch





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TIS MASTERBATCH CO.



# COLOUR MASTERBATCH

TIS Company (TISCO) matched ten thousands of colours virtually in different polymers on the market. We have established a long-lasting leading position in the supplier market of colour concentrates. An interesting range of domestic and international customers appreciates our knowledge and experience in colour development.

Thanks to our state-of-the-art facilities in colour matching and fully equipped fiber labs, we can match exactly to colour your need. Our technology centres are equipped with research and quality control labs to ensure high quality products. The processing is done on a single & twin screw extruder machinery (made by well-known European manufacturers) leading to high quality products.

Our colorful Masterbatch has high concentration pigment with bright colors, excellent dispersion, good heat re-sistance and heat stability performance, easy Coloring, environment protection, and convenient operation. All these together enable us to produce quality Masterbatch being used in fiber, PP woven & non-woven bags, Injection Moulding, Blow Moulding, Extrusion Moulding, Blown Film, and others.

### Colorful Masterbatch

Code	Colour	Polymer Based	Heat Stability	Application	Melting Point	Dispersion	Density gr/cm <sup>3</sup>	Carrier MFI
26004	Orange	PE	280 °c	PP Fiber, Blown Film	131±1 °c	1	1.33±0.05	18 gr/10min(2.16kg,190 °c)
26010	Pink	PE	280 °c	PP Fiber, Blown Film	131±1 °c	0 - 1	1.2±0.05	18 gr/10min(2.16kg,190 °c)
27000	Red	PE	240 °c	Extrusion, PP Woven Bag, Blown Film	131±1 °c	1 - 2	1.17±0.05	18 gr/10min(2.16kg,190 °c)
27004	Red	PE	240 °c	Extrusion, PP Woven Bag, Blown Film	131±1 °c	1 -2	1.12±0.05	18 gr/10min(2.16kg,190 °c)
27008	Red	PE	240 °c	PP Fiber, Blown Film	126±1 °c	2	1.08±0.05	20 gr/10min(2.16kg,190 °c)
27012	Dark Red	PE	240 °c	PP Fiber, Blown Film	126±1 °c	2	1.09±0.05	20 gr/10min(2.16kg,190 °c)
27014	Purple	PE	240 °c	PP Fiber, Blown Film	126±1 °c	2	1.07±0.05	20 gr/10min(2.16kg,190 °c)
28000	Gray	PE	280 °c	PP Fiber, Blown Film	131±1 °c	1	1.3±0.05	18 gr/10min(2.16kg,190 °c)
28002	Gray	PE	280 °c	PP Fiber, Blown Film	131±1 °c	1 -2	1.19±0.05	18 gr/10min(2.16kg,190 °c)
41000	Cream	PP	280 °c	PP BCF Yarn	156±1 °c	0 - 1	1.3±0.05	25 gr/10min(2.16kg,230 °c)
41002	Cream	PP	280 °c	PP BCF Yarn	156±1 °c	0 - 1	1.29±0.05	25 gr/10min(2.16kg,230 °c)
21002	Beige	PE	280 °c	Extrusion, PP Woven Bag, Blown Film	131±1 °c	1	1.44±0.05	18 gr/10min(2.16kg,190 °c)
21004	Beige	PE	280 °c	Extrusion, PP Woven Bag, Blown Film	131±1 °c	1	1.44±0.05	18 gr/10min(2.16kg,190 °c)
22018	Chocolate	PE	280 °c	PP Fiber, Blown Film	131±1 °c	1	1.33±0.05	18 gr/10min(2.16kg,190 °c)
22020	Brown	PE	280 °c	PP Fiber, Blown Film	131±1 °c	1	1.3±0.05	18 gr/10min(2.16kg,190 °c)
22022	Light Brown	PE	280 °c	PP Fiber, Blown Film	131±1 °c	1	1.13±0.05	18 gr/10min(2.16kg,190 °c)



## Colorful Masterbatch

Code	Colour	Polymer Based	Heat Stability	Application	Melting Point	Dispersion	Density gr/cm <sup>3</sup>	Carrier MFI
23002	Blue	PE	280°c	Extrusion, PP Woven Bag, Blown Film	131±1°c	1 - 2	1.13±0.05	18 gr/10min(2.16kg,190°c)
23004	Blue	PE	280°c	Extrusion, Pipe	131±1°c	1 - 2	1.17±0.05	4 gr/10min(2.16kg,190°c)
23008	Dark Blue	PE	280°c	PP Fiber, Blown Film	126±1°c	2	1.1±0.05	20 gr/10min(2.16kg,190°c)
24000	Green	PE	280°c	Pipe, Extrusion, Blown Film	131±1°c	1	1.25±0.05	18 gr/10min(2.16kg,190°c)
24006	Green Jade	PE	280°c	PP Fiber, Blown Film	126±1°c	2	1.18±0.05	20 gr/10min(2.16kg,190°c)
25000	Bright Purple	PE	240°c	PP Fiber, Blown Film	131±1°c	2	1.22±0.05	18 gr/10min(2.16kg,190°c)
61018	Cream	PET	300°c	PET Fiber	252±1°c	0 - 1	1.62±0.05	-
62006	Chocolate	PET	300°c	PET Fiber	252±1°c	0 - 1	1.62±0.05	-
62018	Walnut	PET	300°c	PET Fiber	252±1°c	1	1.62±0.05	-
62024	Dark Walnut	PET	300°c	PET Fiber	252±1°c	1	1.62±0.05	-
63004	Dark Blue	PET	300°c	PET Fiber	252±1°c	2	1.39±0.05	-
64006	Green	PET	300°c	PET Fiber, POY & FDY Yarn	252±1°c	1 - 2	1.48±0.05	-
65000	Bright Purple	PET	270°c	PET Fiber	252±1°c	1 - 2	1.4±0.05	-
66014	Pink	PET	270°c	PET Fiber	252±1°c	1 - 2	1.49±0.05	-
67014	Red	PET	280°c	PET Fiber	252±1°c	2	1.35±0.05	-
67016	Red	PET	270°c	PET Fiber	252±1°c	2	1.38±0.05	-



Colorful Masterbatch								
Code	Colour	Polymer Based	Heat Stability	Application	Melting Point	Dispersion	Density gr/cm <sup>3</sup>	Carrier MFI
68002	Gray	PET	300 °c	PET Fiber, POY & FDY Yarn	252±1 °c	0 - 1	1.43±0.05	-
48002	Silver	PE	280 °c	PP Fiber, Blown Film	156±1 °c	0 - 1	1.22±0.05	25 gr/10min(2.16kg,230 °c)
42000	Chocolate	PP	280 °c	PP BCF Yarn	156±1 °c	0 - 1	1.3±0.05	25 gr/10min(2.16kg,230 °c)
42004	Brown	PP	260 °c	PP BCF Yarn	156±1 °c	1	1.19±0.05	25 gr/10min(2.16kg,230 °c)
42006	Chocolate	PP	260 °c	PP BCF Yarn	156±1 °c	0 - 1	1.19±0.05	25 gr/10min(2.16kg,230 °c)
43000	Dark Blue	PP	260 °c	PP BCF Yarn	156±1 °c	0 - 1	1.2±0.05	25 gr/10min(2.16kg,230 °c)
43002	Blue	PP	260 °c	PP BCF Yarn	156±1 °c	1	1.19±0.05	25 gr/10min(2.16kg,230 °c)
44000	Green	PP	260 °c	PP BCF Yarn	156±1 °c	0 - 1	1.18±0.05	25 gr/10min(2.16kg,230 °c)
45000	Purple	PP	250 °c	PP BCF Yarn	156±1 °c	1 - 2	1.13±0.05	25 gr/10min(2.16kg,230 °c)
45004	Bright Purple	PP	280 °c	PP BCF Yarn	156±1 °c	0 - 1	1.18±0.05	25 gr/10min(2.16kg,230 °c)
46000	Bright Brown	PP	260 °c	PP BCF Yarn	156±1 °c	1	1.17±0.05	25 gr/10min(2.16kg,230 °c)
46002	Pink	PP	260 °c	PP BCF Yarn	156±1 °c	1	1.17±0.05	25 gr/10min(2.16kg,230 °c)
47000	Red	PP	250 °c	PP BCF Yarn	156±1 °c	1	1.12±0.05	25 gr/10min(2.16kg,230 °c)
48000	Bright Gray	PP	280 °c	PP BCF Yarn	156±1 °c	0 - 1	1.2±0.05	25 gr/10min(2.16kg,230 °c)



# BLACK MASTERBATCH

TIS Company (TISCO) offers various grades of black Masterbatch in different polymer types and grades of Black Carbon based upon the customer requirements.

Our carbon black, (made by well-known manufacturers) consist of a wide range of pigment systems varying from large to small particle sizes. The jetness and tinting strength of this pigment is very high.

Our black Masterbatch would be applied in a wide variety of polymer bases such as polyolefins, polyester, polyamide, etc.

Our advanced equipment testing machines, quality Black Carbon, excellent dispersion, good heat resistance and heat stability performance as well as handpicked personnel and specialists guarantee the final quality of black Masterbatch is being used in Fiber & Yarn, Pipes, Bags, Extrusion, Injection, Blow Film, and others.

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Black Masterbatch

Code	Polymer Based	Heat Stability	Application	Melting Point	Average of Largest Agglomerates	Dispersion	Density gr/cm <sup>3</sup>	Carrier MFI
10514	PE	280°C	Pipe, Bag, Injection, Blown Film, Extrusion	131±1°C	(20 -25)µm	1 -2	1.21±0.05	18 gr/10min(2.16kg,190°C)
20500	PE	280°C	PP Fiber, BCF Yarn	131±1°C	(10 -15)µm	0 -1	1±0.05	18 gr/10min(2.16kg,190°C)
30500	PP	260°C	PP Fiber, BCF Yarn	156±1°C	(15 -20)µm	1	1±0.05	25 gr/10min(2.16kg,230°C)
60500	PET	300°C	PET Fiber	252±1°C	(15 -20)µm	1	1.33±0.05	-
60506	PET	300°C	PET Fiber, POY & FDY Yarn	230±1°C	(10 -15)µm	0 -1	1.31±0.05	-
60508	PET	300°C	PET Fiber	230±1°C	(15 -20)µm	1	1.27±0.05	-
60512	PET/PBT	300°C	Deep blue tone black Maserbatch for fine denier POY& FDY	250±1°C	(10 -15)µm	0 -1	1.3±0.05	-
50510	PET/PBT	300°C	PET Fiber	250±1°C	(15 -20)µm	1	1.27±0.05	-

TIS MASTERBATCH CO.



# WHITE MASTERBATCH

TIS Company (TISCO) offers a wide range of white Masterbatch with excellent dispersion of high quality micron rutile titanium dioxide (imported from well-known manufacturers), carriers and additives.

This Masterbatch provides whiteness, brightness and opacity to the final product.

Our white concentrates are available in a number of carrier resins such as polyolefins, polyester, polyamide, etc. They are designed to be used in woven & nonwoven bags, pipes, extrusion, injection, and blow molding applications. We are capable of producing based upon your requirements.

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## White Masterbatch

Code	Polymer Based	Heat Stability	Application	Melting Point	Average of Largest Agglomerates	Dispersion	Density gr/cm <sup>3</sup>	Carrier MFI
10002	PE	280 °c	Pipe, Extrusion Blown Film	131±1 °c	(10 -15)µm	0 -1	1.21±0.05	18 gr/10min(2.16kg,190 °c)
10004	PE	280 °c	Pipe, Extrusion Blown Film	131±1 °c	(10 -15)µm	0 -1	1.21±0.05	18 gr/10min(2.16kg,190 °c)
10006	PE	280 °c	Extrusion, PP Woven Bag,Injection, Blown Film	131±1 °c	(15 -20)µm	0 -1	1.62±0.05	18 gr/10min(2.16kg,190 °c)
10008	PE	280 °c	Extrusion, PP Woven Bag,Injection, Blown Film	131±1 °c	(15 -20)µm	0 -1	1.65±0.05	18 gr/10min(2.16kg,190 °c)
30000	PP	280 °c	Pipe, Bag, Injection, Blown Film, Extrusion	157±1 °c	(15 -20)µm	0 -1	1.58±0.05	25 gr/10min(2.16kg,230 °c)
30002	PP	280 °c	Pipe, Extrusion, Blown Film, Spunband	157±1 °c	(10 -15)µm	0 -1	1.22±0.05	25 gr/10min(2.16kg,230 °c)
50000	PET	300 °c	Fiber, POY & FDY, Yarn	252±1 °c	(10 -15)µm	0 -1	1.52±0.05	-



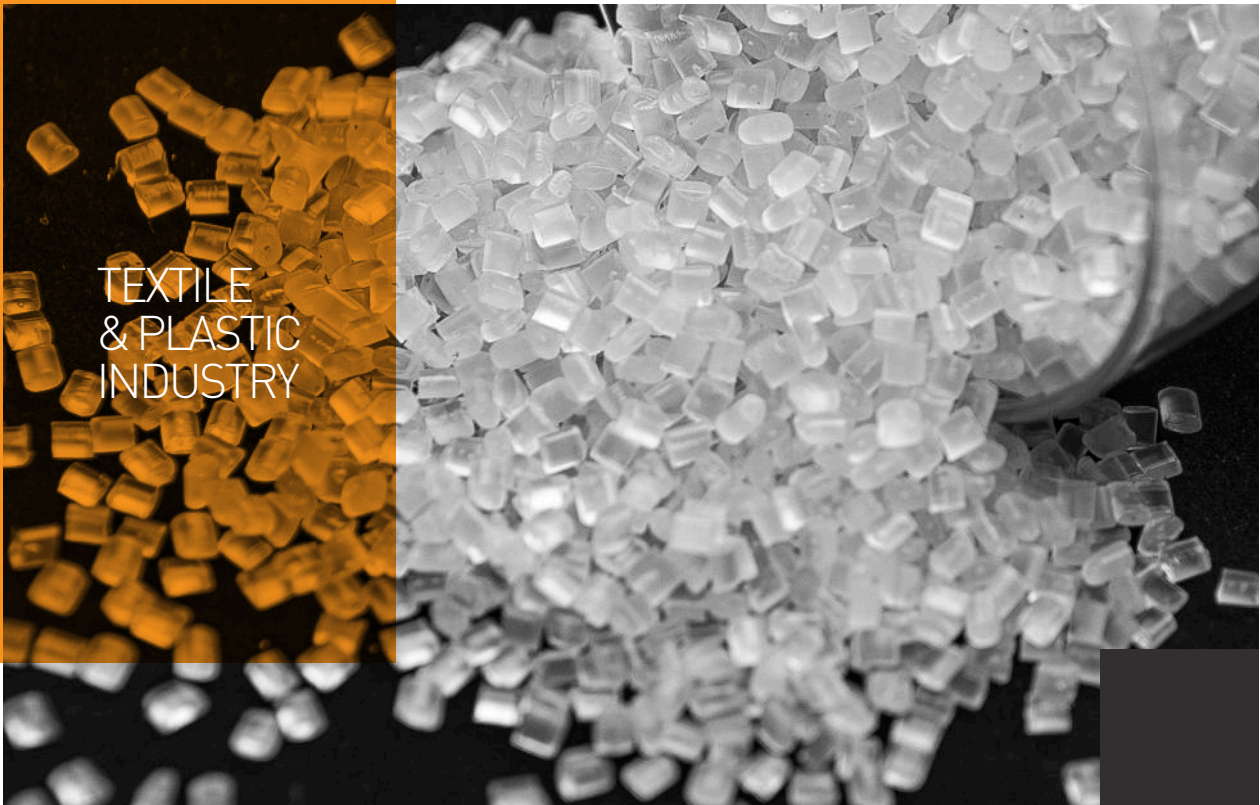
# ADDITIVE MASTERBATCH

TIS Company (TISCO) manufactures a wide range of Masterbatch containing special additives to improve and modify the properties of polymers. Our additives are available in different polymer bases such as PE and PP.

TISCO has categorized its Additive Masterbatch into different types such as Antioxidants, UV Stabilizers and Polymer Process Aids (PPA).

- Antioxidants: The use of antioxidants in polymer processing can offer better stabilization of the polymer during processing and also prolong its useful life in the end application. So, this additive can give process stabilization in PP fiber production when careful control of the MFI is essential to ensure high quality trouble free production. We help you to select the correct package of antioxidants enhancing long term color and thermal stability.
- UV Stabilizers : Ultra Violet radiation is destructive to polymeric materials. So, the choice of an appropriate and efficient UV package is critical to ensure good performance and longevity of the polymer.
- Polymer Process Aids (PPA): PPA Masterbatch is specifically designed to enhance extrusion ability of plastics (PE Films, pipes, tubes...) leading to productivity and quality improvement.
- Etc.





### Additive Masterbatch

Code	Polymer Based	Heat Stability	Application	Melting Point	Density gr/cm <sup>3</sup>	Carrier MFI
29910	Polyethylene Based Antioxidant Masterbatch	280 °c	Pipe, Extrusion	132±1 °c	1.05±0.05	4 gr/10min(2.16kg,190 °c)
29930	Polyethylene Based UV Stabilizer Masterbatch	280 °c	Extrusion, PP Woven Bag, PP Fiber, Blown Film	131±1 °c	1.05±0.05	18 gr/10min(2.16kg,190 °c)
39930	Polypropylene Based UV Stabilizer Masterbatch	300 °c	Extrusion, PP Woven Bag, PP Fiber, Blown Film	157±1 °c	1.05±0.05	15 gr/10min(2.16kg,230 °c)



# LABORATORY

## MASTERBATCH

### Laboratory and Semi-Industrial (Pilot) Units:

The masterbatch quality control tests are being done according to U.S (ASTM) International and some other national standard systems. Through current equipped laboratory and continuous quality control, the production process of our masterbatch is monotonous and confronted to minimum rates of wastage or loss.

Whole testing process from raw materials arrival to final products are being done through Tis company laboratory.

The most important tests ,which could be done in this laboratory, are density checking ,masterbatch oxidation stability test (OIT) , The measurement of pigments spreading by compressed nets (Filter test) , Microscopic studying of wet pigments , meshing , optical and thermal stability tests.

There is possibility to simulate customer requests for various masterbatches colors by computer software in Tis laboratory.

There is possibility to produce Masterbatches in Semi-Industrial scale in order to supply specific customer requests for yarn and fiber , then customer's requested masterbatches would be checked by computerized simulation process for color synchronizing control in laboratory which would lead to semi-industrial production of masterbatches and after that would be transformed to BCF or POY yarns or CF fibers through this semi-industrial unit for delivering to customers.

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## ZarifMosavar Overview

# Note

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