



**KAYSAPOLYMER**

*We Compete with Our Quality*

[kaysapolymer.com](http://kaysapolymer.com)

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## About us

In 2004, we started our activity in the field of masterbatch production and additives for plastic industries, and in 2015, by purchasing the most advanced masterbatch production machines with the Kaysa polymer brand, we established ourselves as one of the leading manufacturers in the masterbatch industry. We proposed and with the help of Almighty God, within a short period, due to the high quality of the products the reasonable price compared to other competitors, and the provision of suitable services, we found and consolidated our place in the Iranian masterbatch market. 4 factors play a role in the production of quality masterbatch:

- 1- Preparation of high-quality raw materials
- 2- Using expert and experienced staff
- 3- High quality of masterbatch machines
- 4- The testing and control of the final product play the main role that Kaysa Polymer has in determining its production policy with special obsession and precision in the framework of this perspective.

Kaysa Polymer can deliver the requested sample and customer order as soon as possible thanks to the variety of its machinery and sufficient stock.





## Color Masterbatches

Kysapolymer has started its activity with the production of color masterbatches and by spending enough time and money, it has been able to produce almost all types of colors required by the market. Our background and experience have made it possible to produce masterbatch with pigments and additives and different production methods for each part of the plastic industry, suitable for the intended product. By having different laboratory devices for testing, diagnosing, and comparing colors, Kaysa Polymer can provide its customers with the quality of the produced product and the results of the tests.

Production of color masterbatches based on customer request samples

Masterbatch production based on ABS, PVC, PP, PE, PS, PET

Production of colored masterbatches, and customer-requested additives (antioxidant, anti-UV, flame retardant, etc.)

Production of colored masterbatches for recycled materials at a more economical price







## White masterbatch

In general, the type and percentage of titanium dioxide determines the quality of white masterbatches. Due to the high percentage of titanium used in white masterbatch and its sensitivity to the process temperature, the production of white masterbatch requires special sensitivity and accuracy.

By producing 10 to 70% titanium masterbatch with special additives, Kaysapolymer can produce high-quality and cost-effective masterbatch for all parts of the plastic industry.

Application of white masterbatch:

- |   |                               |
|---|-------------------------------|
| Single-layer and three-layer films and packaging industries |                               |
| HIPS sheets   | Other disposables             |
| Pipes and fittings  | sack weaving                  |
| Home Appliances   | Applications of thermoforming |
| Cosmetics   | Airy material                 |
|   | Injection                     |

## Black masterbatch

In general, white and black masterbatches are the most consumed in the plastic industry. The quality of carbon black and the production process are two important factors in the distribution and concentration of black masterbatches. Due to the wide use of black masterbatch in the film, tube, sheet, and injection packaging industries, cables, etc., recommended products must be used.

For example, regarding the use of black masterbatch used in film and packaging, it is important that the masterbatch provides the desired blackness and brightness and has a regular distribution, or in the industries of Harrogate pipes or drip irrigation pipes, it must be a special grade for the pipe that has extra UV and It has excellent dispersion and should be used.

- Production of black masterbatch up to 40% soot
- Production of black masterbatch on different bases for use in different industries
- Exclusive masterbatch production for recycled materials at a more reasonable price



## Additives

### Transparent Additive:

- \* Reducing the amount of turbidity and increasing the transparency of the product
- \* Increased brightness and whiteness in white products

### Applications:

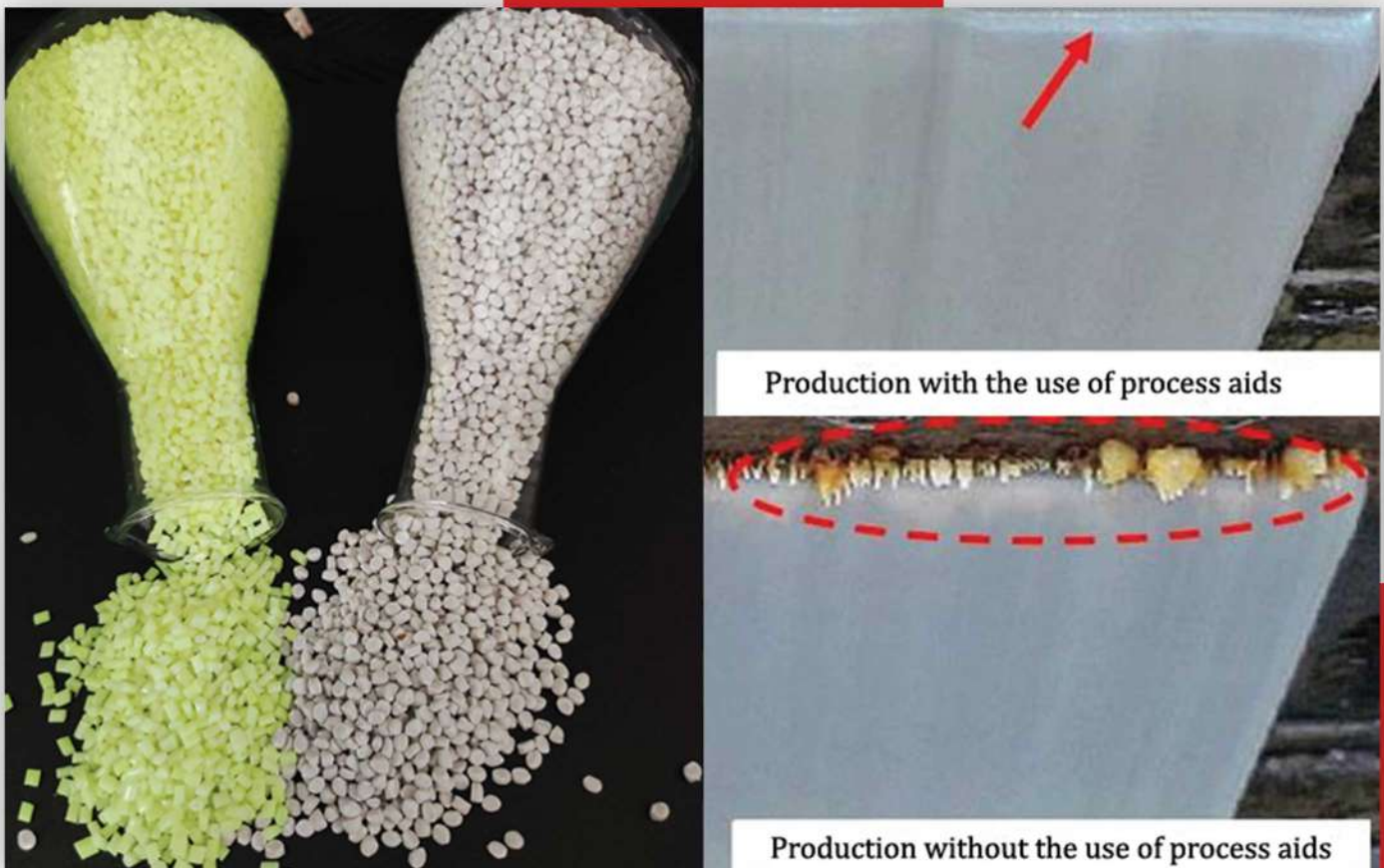
1. Disposable dishes
2. Inflatable products
3. Film and sheet
4. Injection parts

### Polymer Processing Aid (PPA)

- \* Maintaining the breakdown of the melt and providing a smooth surface for the product
- \* Improving the optical properties and transparency of the product
- \* Helping to distribute materials better
- Reducing the friction of materials and as a result lowering
- \* energy consumption and increasing the life of machines

### Applications:

1. Polyethylene films
2. Drip irrigation pipes
3. High pressure polyethylene pipes
4. wire and cable





## Anti UV

- ☀ Prevent product color change
- ☀ Product stability against UV rays
- ☀ Maintaining the physical properties of the product

## Applications:

1. Agricultural films
2. Rope and fibers
3. Polyethylene tanks
4. auto parts
5. High-pressure and drip pipes
6. Injectable products

## Antiblock

- ☀ Help to release the part from the mold
- ☀ Preventing film edges from sticking
- ☀ Increasing output in packaging lines

## Applications:

1. PE and PP films
2. PP sheets
- 3 Extruded products
4. Injection parts





## Lubricating

- ✦ Create processing aid properties
- ✦ Helping to open the edges of the film more easily
- ✦ Reducing the coefficient of friction and increasing the smoothness and softness of the product

## Applications:

1. Polyethylene films
2. Extruded products
3. Foams



## Anti oxidanet

- ✦ Preventing polymer degradation at high temperatures and increasing polymer life
- ✦ Protection against discoloration and yellowing during production
- ✦ Preservation of mechanical properties during use
- ✦ Improving the smoothness of the polymer surface

## Applications:

1. High-pressure polyethylene pipes
2. Polyethylene films
3. Injected parts
4. Extruded products







## Applications

In all polymer industries

## Filler

Fillers are particles that are added to the polymer. They can improve certain properties or make the product cheaper and also be a combination of these two properties.

Worldwide, more than 53 million tons of fillers (with a total amount of approximately 18 billion dollars) are used every year in various fields such as paper, plastic, rubber, paint, coating, glue, etc.

The filler material can affect tensile strength, toughness, heat resistance, color, clarity, etc. Most of the fillers used in plastics are mineral or glass based.

## Advantages

Reduction in the price of the finished product

Improving thermal resistance and dimensional stability

Increasing the hardness of manufactured products

Improve printability

Anti-blocking properties and preventing nylon edges from sticking

Reducing the need to use white masterbatch

## Laboratory



Our laboratory department is based on 3 main elements of quality control, new color studies and research and development. This part is one of the most important parts of every production unit, which must be active 24 hours a day to ensure the quality of the materials entering the factory and the manufactured product every moment.

The activity process of Kaisa Polymer Laboratory is carried out in 3 stages:

Testing and evaluation of raw materials before entering the production cycle

Laboratory production of paint and coating samples and approval of the manufacturing order

Examination and testing of a random sample of the manufactured product.



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