



Preperse Pigment Preparation

An effective and user-friendly way for plastic coloring.



INTRODUCTION

Preperse pigment preparations are combined with several groups of pre-dispersed pigments which are recommended for correlating plastics. Now we have separated Preperse series for polypropylene, polyethylene, polyvinyl chloride, poly amide, which are widely suitable for general applications such as injection molding, extrusion, fiber and film.

Using pigment preparations (pre-dispersed pigments) for particular plastic applications, such as filament, BCF yarn, thin films, always benefit producer an outstanding advantage of low dust. Unlike powder pigments, pigment preparations are in micro granule or pellet type which shows better fluidity when mixed with other materials.

They also show better dispersibility than powder pigments in plastic application. Coloring cost is another fact which users always concern about when using colorants in their products. Thanks to the advanced pre-dispersing technique, Preperse pigment preparations show more growth on their positive or major color tone. User can easily find better chroma when adding them into products.

The Preperse pigment preparations have medium to maximum level of light resistance, heat stability and migration fastness. They meet all possible coloristic requirements. More products are in R&D status and will be disclosed soon.



APPLICATION

The Preperse pigment preparations are suitable for applications:

- fiber
- film
- pipe
- blow molding
- injection molding
- extrusion



Preperse pigment preparations are effectively dispersed pigment concentration, which are in high pigment content. Most Preperse pigments have an effective component from 70% to 90%.

They are all in granular type or micro pellets, which are dust-free, free-flowing and suitable for auto-feeding system.

Each series of Preperse pigments can be used within low shear action. For example, when producing masterbatch for injection molding, single-screw machine is more sufficient and flexible choice for manufacturers. Preperse pigments will easily meet the best dispersion performance in such condition, where only feeble shear force available but high dispersibility is expected.

Twin-screw extruders are favorable when using Preperse PE-S, PP-S, PA for high standard pigment dispersion or where the masterbatch are used to color fibers, films, etc.

PRODUCT RANGE



Preperse PE-S

Recommended for coloring plastic applications which request severe performance on Filter Pressure Value (FPV), such as PE cast film, thin film etc. To achieve advantages of dispersibility, we suggest customer processing with a twin-screw machine, making mono masterbatch.

Preperse PP-M

Used for manufacture of masterbatch. Recommended for coloring polypropylene, by single screw machine or twin screw machine for injection molding and extrusion etc.

Preperse PP-S

Recommended for coloring polypropylene which request severe FPV performance, typically polypropylene fiber masterbatch. To achieve advantages of dispersibility, we suggest customer processing with a twin-screw machine, making mono masterbatch.

Preperse PA

Used for coloring polyamides. Allowed for coloring PA fiber masterbatch. Pigment content is from 85% to 90%, which means very low additive volume into products.

Preperse PVC

Recommended for coloring polyvinyl chloride. The group can be directly used for injection molding or extrusion.

Preperse PE-S

Preperse PE-S series is a group of pigment preparations highly concentrated by organic pigments, which is based on wax carrier. They are generated to granular type with properties of low-dusting and free-flowing.

Preperse PE-S pigment preparation is targeting at applications request high FPV result, such as thin film etc.

In order to achieve the FPV requirement for severe applications, twin-screw extruder and making mono masterbatch is necessary.

The common FPV of Preperse PE-S grade is ≤ 0.8 bar/g, based on below condition:

Mesh number: 1400;

Pigment content pass through test: 60g;

Pigment % to resin: 10%.

Above FPV test uses mono masterbatch made by twin-screw extruder.

Product	Full shade	Tint shade	Physical properties			Resistance and Fastness				Application		
			Pigment content	Fusion point °C	Bulk density g/cm3	Migration	Heat °C	Light	Weather (3,000 h)	Injection molding	Extrusion	PE Film
Preperse PE-S Yellow GR C.I. Pigment Yellow 13			70%	60±10	0.75	4-5	200	7	-	●	●	●
Preperse PE-S Yellow BS C.I. Pigment Yellow 14			70%	60±10	0.75	4-5	200	7	-	●	●	●
Preperse PE-S Yellow 2G C.I. Pigment Yellow 17			70%	60±10	0.75	4-5	200	7	-	●	●	●
Preperse PE-S Yellow WSR C.I. Pigment Yellow 62			70%	60±10	0.75	5	240	7	-	●	●	●
Preperse PE-S Yellow HR02 C.I. Pigment Yellow 83			70%	60±10	0.75	4-5	200	7	-	●	●	●
Preperse PE-S Yellow 3RLP C.I. Pigment Yellow 110			70%	60±10	0.75	4-5	280	7-8	5	●	●	●
Preperse PE-S Yellow H2R C.I. Pigment Yellow 139			75%	60±10	0.75	4-5	240	7-8	3	●	●	●
Preperse PE-S Yellow WGP C.I. Pigment Yellow 168			70%	60±10	0.75	5	240	7	3	●	●	●
Preperse PE-S Yellow HG C.I. Pigment Yellow 180			70%	60±10	0.75	5	260	7	4	●	●	●
Preperse PE-S Yellow 5RP C.I. Pigment Yellow 183			70%	60±10	0.75	5	280	7	4	●	●	●
Preperse PE-S Yellow HGR C.I. Pigment Yellow 191			70%	60±10	0.75	4-5	300	7	3-4	●	●	●
Preperse PE-S Orange GP C.I. Pigment Orange 64			75%	60±10	0.75	4-5	260	7-8	4	●	●	●

Fusion point refers to the melt point of the polyolefin carrier used in the pigment preparations. The processing temperature must be higher than the disclosed fusion point of each product.

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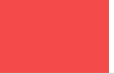

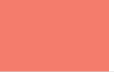


















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Preperse PE-S Red 2BP C.I. Pigment Red 48:2			70%	60±10	0.75	4-5	240	7-8	4	●	●	●
Preperse PE-S Red 2BSP C.I. Pigment Red 48:3			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PE-S Red R.C C.I. Pigment Red 53:1			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PE-S Red 4BP C.I. Pigment Red 57:1			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PE-S Red F3RK C.I. Pigment Red 170F3RK			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PE-S Red F5RK C.I. Pigment Red 170F5RK			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PE-S Red ME C.I. Pigment Red 122			70%	60±10	0.75	5	280	7-8	4	●	●	●
Preperse PE-S Red DBP C.I. Pigment Red 254			70%	60±10	0.75	5	260	8	4	●	●	●
Preperse PE-S Violet E4B C.I. Pigment Violet 19			65%	60±10	0.75	5	280	8	4-5	●	●	●
Preperse PE-S Violet RL C.I. Pigment Violet 23			65%	60±10	0.75	3-4	260	7-8	3-4	●	●	●
Preperse PE-S Blue BGP C.I. Pigment Blue 15:3			70%	60±10	0.75	5	300	8	5	●	●	●
Preperse PE-S Green G C.I. Pigment Green 7			70%	60±10	0.75	5	300	8	5	●	●	●

Fusion point refers to the melt point of the polyolefin carrier used in the pigment preparations. The processing temperature must be higher than the disclosed fusion point of each product.

Preperse PP-M

Preperse PP-M series is pigment preparations of organic pigments based on polypropylene wax carrier.

Preperse PP-M pigment preparation is especially suitable for polypropylene. The high ratio of dispersed pigments in the polymer carrier results in exceptionally good process-ability, especially for applications include injection moldings, extrusion, etc.

Only low shear force is requested for dispersing these Preperse PP-M pigments. Single screw machine can be an applicative way when manufacturing mono masterbatch or color masterbatch with Preperse PP-M grade.

Same as other Preperse grade, Preperse PP-M is low-dusting, highly concentrated granule. Auto-feeding and metering system is favorable to be adopted.

Product	Full shade	Tint shade	Physical properties			Resistance and Fastness				Application		
			Pigment content	Fusion point °C	Bulk density g/cm3	Migration	Heat °C	Light	Weather (3,000 h)	Injection molding	Extrusion	PP fiber
Preperse PP-M Yellow GR C.I. Pigment Yellow 13			70%	60±10	0.75	4-5	200	7	-	●	●	x
Preperse PP-M Yellow BS C.I. Pigment Yellow 14			70%	60±10	0.75	4-5	200	7	-	●	●	x
Preperse PP-M Yellow 2G C.I. Pigment Yellow 17			70%	60±10	0.75	4-5	200	7	-	●	●	x
Preperse PP-M Yellow WSR C.I. Pigment Yellow 62			70%	60±10	0.75	5	240	7	-	●	●	x
Preperse PP-M Yellow HR02 C.I. Pigment Yellow 83			70%	60±10	0.75	4-5	200	7	-	●	●	x
Preperse PP-M Yellow 3RLP C.I. Pigment Yellow 110			70%	60±10	0.75	4-5	280	7-8	5	●	●	x
Preperse PP-M Yellow H2R C.I. Pigment Yellow 139			75%	60±10	0.75	4-5	240	7-8	3	●	●	○
Preperse PP-M Yellow WGP C.I. Pigment Yellow 168			70%	60±10	0.75	5	240	7	3	●	●	x
Preperse PP-M Yellow HG C.I. Pigment Yellow 180			70%	60±10	0.75	5	260	7	4	●	●	○
Preperse PP-M Yellow 5RP C.I. Pigment Yellow 183			70%	60±10	0.75	5	280	7	4	●	●	x
Preperse PP-M Yellow HGR C.I. Pigment Yellow 191			70%	60±10	0.75	4-5	300	7	3-4	●	●	x
Preperse PP-M Orange GP C.I. Pigment Orange 64			75%	60±10	0.75	4-5	260	7-8	4	●	●	○

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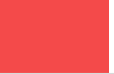

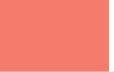


















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Product	Full shade	Tint shade	Physical properties			Resistance and Fastness				Application		
			Pigment content	Fusion point °C	Bulk density g/cm3	Migration	Heat °C	Light	Weather (3,000 h)	Injection molding	Extrusion	PP fiber
Preperse PP-M Red 2BP C.I. Pigment Red 48:2			70%	60±10	0.75	4-5	240	7-8	4	●	●	x
Preperse PP-M Red 2BSP C.I. Pigment Red 48:3			70%	60±10	0.75	5	220	7	-	●	●	x
Preperse PP-M Red R.C C.I. Pigment Red 53:1			70%	60±10	0.75	5	220	7	-	●	●	x
Preperse PP-M Red 4BP C.I. Pigment Red 57:1			70%	60±10	0.75	5	220	7	-	●	●	x
Preperse PP-M Red F3RK C.I. Pigment Red 170F3RK			70%	60±10	0.75	5	220	7	-	●	●	x
Preperse PP-M Red F5RK C.I. Pigment Red 170F5RK			70%	60±10	0.75	5	220	7	-	●	●	x
Preperse PP-M Red ME C.I. Pigment Red 122			70%	60±10	0.75	5	280	7-8	4	●	●	x
Preperse PP-M Red DBP C.I. Pigment Red 254			70%	60±10	0.75	5	260	8	4	●	●	x
Preperse PP-M Violet E4B C.I. Pigment Violet 19			65%	60±10	0.75	5	280	8	4-5	●	●	x
Preperse PP-M Violet RL C.I. Pigment Violet 23			65%	60±10	0.75	3-4	260	7-8	3-4	●	●	x
Preperse PP-M Blue BGP C.I. Pigment Blue 15:3			70%	60±10	0.75	5	300	8	5	●	●	x
Preperse PP-M Green G C.I. Pigment Green 7			70%	60±10	0.75	5	300	8	5	●	●	x

Fusion point refers to the melt point of the polyolefin carrier used in the pigment preparations. The processing temperature must be higher than the disclosed fusion point of each product.

Preperse PP-S

Preperse PP-S series is a group of organic pigment preparations recommended for coloring polypropylene applications that request outstanding filter pressure value (FPV) performance. For example, Preperse PP-S grade can be used in mono masterbatch of polypropylene filament and fiber, which requires minimum FPV below 1.0 bar/g under a testing condition of 1400 mesh sieve.





Preperse PP-S pigments are also in granular type. They are dust-free, free-flowing and suitable for auto-feeding.

In order to achieve the FPV requirement for severe applications, twin-screw extruder and making mono masterbatch are necessary.

The common FPV of Preperse PP-S grade is ≤ 0.8 bar/g, based on below condition:

*Mesh number: 1400;
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			Pigment content	Fusion point °C	Bulk density g/cm3	Migration	Heat °C	Light	Weather (3,000 h)	Injection molding	Extrusion	PP fiber
Preperse PP-S Yellow 2G C.I. Pigment Yellow 17			70%	60±10	0.75	4-5	200	7	-	●	●	○
Preperse PP-S Yellow HR02 C.I. Pigment Yellow 83			70%	60±10	0.75	4-5	200	7	-	●	●	●
Preperse PP-S Yellow 3RLP C.I. Pigment Yellow 110			70%	60±10	0.75	4-5	280	7-8	5	●	●	●
Preperse PP-S Yellow H2R C.I. Pigment Yellow 139			75%	60±10	0.75	4-5	240	7-8	3	●	●	●
Preperse PP-S Yellow HG C.I. Pigment Yellow 180			70%	60±10	0.75	5	260	7	4	●	●	●
Preperse PP-S Yellow 5RP C.I. Pigment Yellow 183			70%	60±10	0.75	5	280	7	4	●	●	●
Preperse PP-S Yellow HGR C.I. Pigment Yellow 191			70%	60±10	0.75	4-5	300	7	3-4	●	●	●
Preperse PP-S Orange GP C.I. Pigment Orange 64			75%	60±10	0.75	4-5	260	7-8	4	●	●	●
Preperse PP-S Blue BGP C.I. Pigment Blue 15:3			70%	60±10	0.75	5	300	8	5	●	●	●
Preperse PP-S Green G C.I. Pigment Green 7			70%	60±10	0.75	5	300	8	5	●	●	●

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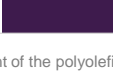
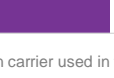
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Pigment % to resin: 10%.

Above FPV test uses mono masterbatch made by twin-screw extruder.

Product	Full shade	Tint shade	Physical properties			Resistance and Fastness				Application		
			Pigment content	Fusion point °C	Bulk density g/cm ³	Migration	Heat °C	Light	Weather (3,000 h)	Injection molding	Extrusion	PP fiber
Preperse PP-S Red 2BP C.I. Pigment Red 48:2			70%	60±10	0.75	4-5	240	7-8	4	●	●	●
Preperse PP-S Red 2BSP C.I. Pigment Red 48:3			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PP-S Red R.C C.I. Pigment Red 53:1			70%	60±10	0.75	5	220	7	-	●	●	○
Preperse PP-S Red 4BP C.I. Pigment Red 57:1			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PP-S Red F3RK C.I. Pigment Red 170F3RK			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PP-S Red F5RK C.I. Pigment Red 170F5RK			70%	60±10	0.75	5	220	7	-	●	●	●
Preperse PP-S Red ME C.I. Pigment Red 122			70%	60±10	0.75	5	280	7-8	4	●	●	●
Preperse PP-S Red DBP C.I. Pigment Red 254			70%	60±10	0.75	5	260	8	4	●	●	●
Preperse PP-S Violet E4B C.I. Pigment Violet 19			70%	60±10	0.75	5	280	8	4-5	●	●	●
Preperse PP-S Violet RL C.I. Pigment Violet 23			70%	60±10	0.75	3-4	260	7-8	3-4	●	●	●






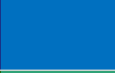


Fusion point refers to the melt point of the polyolefin carrier used in the pigment preparations. The processing temperature must be higher than the disclosed fusion point of each product.

Preperse PA

Preperse PA series is pigment preparation for polyamide and polyamide 6.

Preperse PA series is in granular type. They are dust-free, free-flowing and suitable for auto-feeding.

The low content of polymer carrier material used has a positive effect both on the rheological properties of the polymer melt and also on the technical properties of the final products, such as better tensile strength and elongation rate in fibers and yarns.

Product	Full shade	Tint shade	Physical properties			Resistance and Fastness				Application		
			Pigment content	Fusion point °C	Bulk density g/cm3	Migration	Heat °C	Light	Weather (3,000 h)	Injection molding	Extrusion	PA fiber
Preperse PA Yellow 5GN C.I. Pigment Yellow 150			85%	160±10	0.75	5	300	8	5	●	●	●
Preperse PA Red BL C.I. Pigment Red 149			85%	160±10	0.75	5	300	7	3-4	●	●	●
Preperse PA Blue BGP C.I. Pigment Blue 15:3			80%	160±10	0.75	5	300	8	5	●	●	●
Preperse PA Green G C.I. Pigment Green 7			85%	160±10	0.75	5	300	8	5	●	●	●

Fusion point refers to the melt point of the polyolefin carrier used in the pigment preparations. The processing temperature must be higher than the disclosed fusion point of each product.

Preperse PVC

Preperse PVC pigment preparations are based on polyolefin carriers, in which the pigments have been well pre-dispersed.

Preperse PVC pigment preparations are suitable for polyvinyl chloride, used for applications include injection moldings, extrusion, films and other universal applications. Only low shear force is requested for dispersing these pigments. Single screw machine can be an applicative equipment when manufacturing mono masterbatch or color masterbatch with Preperse PVC pigments. Thus, Preperse PVC pigment helps for more flexible production, less machinery clean time.

Preperse PVC pigments are low-dusting, highly concentrated granule. Auto-feeding and metering system are possible and favorable when using these pigments.

Product	Full shade	Tint shade	Physical properties			Resistance and Fastness				Application		
			Pigment content	Fusion point °C	Bulk density g/cm3	Migration	Heat °C	Light	Weather (3,000 h)	Injection molding	Extrusion	Film
Preperse PVC Yellow GR C.I. Pigment Yellow 13			70%	40-60	0.75	4-5	200	7	-	●	●	●
Preperse PVC Yellow BS C.I. Pigment Yellow 14			70%	40-60	0.75	4-5	200	7	-	●	●	●
Preperse PVC Yellow 2G C.I. Pigment Yellow 17			70%	40-60	0.75	4-5	200	7	-	●	●	●
Preperse PVC Yellow WSR C.I. Pigment Yellow 62			70%	40-60	0.75	5	240	7	-	●	●	●
Preperse PVC Yellow HR02 C.I. Pigment Yellow 83			70%	40-60	0.75	4-5	200	7	-	●	●	●
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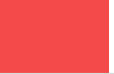

















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Preperse PVC Red ME C.I. Pigment Red 122			70%	40-60	0.75	5	280	7-8	4	●	●	●
Preperse PVC Red DBP C.I. Pigment Red 254			70%	40-60	0.75	5	260	8	4	●	●	●
Preperse PVC Violet E4B C.I. Pigment Violet 19			70%	40-60	0.75	5	280	8	4-5	●	●	●
Preperse PVC Violet RL C.I. Pigment Violet 23			70%	40-60	0.75	3-4	260	7-8	3-4	●	●	●
Preperse PVC Blue BGP C.I. Pigment Blue 15:3			70%	40-60	0.75	5	300	8	5	●	●	●
Preperse PVC Green G C.I. Pigment Green 7			70%	40-60	0.75	5	300	8	5	●	●	●

Fusion point refers to the melt point of the polyolefin carrier used in the pigment preparations. The processing temperature must be higher than the disclosed fusion point of each product.



Ningbo Precise New Material Technology CO., LTD

Phone: +86 574 88139027; +86 574 88139809

E-mail: sales@precisechem.com

Website: www.precisechem.com

Address: 959, Chengxin Road., Yinzhou, Ningbo, China.



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