



Reversible thermochromic colorant

## CHROMICOLOR PP • PE Conc. BW Grade

### Product Outline

CHROMICOLOR PP • PE Conc. BW Grade is a reversible thermochromic colorants in masterbatch form. By compounding into a natural Polypropylene(PP) or Polyethylene(PE) at the ratio of 5-10% for injection / extrusion molding, a plastic object with thermochromic function can be obtained. This product does not contain "bisphenol A" .

### Property

	CHROMICOLOR PP Conc. BW Grade CHROMICOLOR PE Conc. BW Grade
Appearance	Colored Pellet Diameter $2.5 \pm 0.5\text{mm}$ , Length $3.0\text{mm} \pm 0.5\text{mm}$
Density (g/cm <sup>3</sup> )	$0.91 \pm 0.05$
MFI	15 ~ 40g/10min.(190°C × 2.16kgf)

### Color / Temp. Types

#### Available Colors; 11 colors

 Fast Yellow	 New Fast Blue
 Gold Orange	 Turquoise Blue
 New Vermilion	 Brilliant Green
 Pink 2	 Green 2
 Magenta	 Fast Black 2
	 Brown

#### Temperature Types

Type #5	Type #20
Type #10	Type #25
Type #15	Type #27
Type #17	Type #35
	Type #37

### Considerations

- Its dosage into natural resin is 5-10%. If the dosage is over 15%, it affects the durability of the final products. Choose the resin with high transparency to achieve a vibrant color on the final products. Choose the resin with a high melt-index to dilute CHROMICOLOR, which makes the molding process smoothly.
- When Metallic Soap is used for dispersion, use "magnesium stearate". Do not use 'zinc-based' as it may cause CHROMICOLOR having residual colors when disappears.
- Keep sealed after each use. Store in cool and dark place.  
It is advisable to have pre-dry at 80°C x 3 hours before using.
- Molding process can be according to the resin to be used, but a pre-test is strongly recommended.
- CHROMICOLOR PE/PP Conc. BW Grade has weak coloring power. Please, do not use it with any white pigment.
- The excess from the molding can not be re-used because the microcapsule may be broken by the crusher.

- CHROMICOLOR has weak light-fastness (not only Sunlight but any lights), so pre-test is a must to judge the suitability.
- Shelf Life ; 6 months under 30°C.
- This product contains TSCA / SNUR applicable substances. Please, carefully refer the SDS before use.

\*Carefully test to see the applicability before bulk use.



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