

## Master Batch for PLA Injection and Extrusion

1. Description: PLAM is the Master Batch which is designed for PLA coloration. This product has good dispersion, physical properties and coloration. It is suitable for PLA Injection/Extrusion and other related application.
2. Appearance: Master Batch(Pellet)
3. Product Code: PLAM can be custom-made by different requirement (ex. color shade, concentration, operation and physical properties).

Item Code	Color	Pigment No.	Heat Resistance	Light Fastness	Migration
PLAM YELLOW 0L003	Yellow (Reddish)	PY-191	5	6-7	5
PLAM ORANGE 1L008	Orange	PO-64	5	7-8	5
PLAM RED 2L004	Red (Bluish)	PR-48:3	4-5	7-8	5
PLAM VIOLET 4L010	Violet	PV-23	5	7-8	5
PLAM BLUE 5L005	Blue (Reddish)	PB-15:1	5	6	5
PLAM BLUE 5L020	Blue (Yellowish)	PB-15:3	5	7-8	5
PLAM GREEN 6L009	Green	PG-7	5	7-8	5
PLAM BLACK 7L006	Black	PBK-7	5	7-8	5
PLAM WHITE 8L007	White	PW-6	5	8	5
PLAM YELLOW 0L043	Yellow	-	-	-	-
PLAM ORANGE 1L044	Orange	-	-	-	-
PLAM RED 2L045	Red	-	-	-	-
PLAM BLUE 5L046	Blue	-	-	-	-
PLAM GREEN 6L047	Green	-	-	-	-
PLAM SILER 9L027	Silver	-	-	-	-
PLAM GOLD 9L029	Gold	-	-	-	-
PLAM GOLD 9L034	Gold (Bronze)	-	-	-	-
PLAM GOLD 9L035	Gold (Copper)	-	-	-	-

Remarks:

- a. The heat resistance test was conducted according to ISO Grey Scale and the rating from 1 to 5. The dosage of pigment: 0.2%. The condition of Heat Resistance test: 200°C×5mins.
- b. The light fastness test was conducted according to ISO105-B02 Blue Scale and the rating from 1 to 8. The dosage of pigment: 0.2%. The condition of Light Fastness test: Xenon arc

lamp irradiation energy  $1.1\text{W/m}^2 \times 24\text{hrs}$ .

- c. The migration test was conducted according to CIBA-GEIGY Grey Scale and the rating from 1 to 5. The full shade dosage of pigment: 0.1% and white shade is used to PLAM White 8L007 6.67%+PLA resin. The condition of Migration test:  $80^\circ\text{C} \times 100\text{g/cm}^2 \times 24\text{hrs}$ .
4. Recommended dosage is 2-4% depends on the customers' conditions and requirements.
5. Notices:
  - a. Adequate drying before using is recommended.
  - b. Recommended Processing Temperature: controlled between  $160\text{-}200^\circ\text{C}$ .

**The above data and results are based on controlled or lab work and must be confirmed by buyer by testing for the intended conditions of use.**

品 名	CI Pigment No.	濃色 Color: 0.5 PHR	淡色 Color: 0.5 PHR PLAM WH:2.0 PHR
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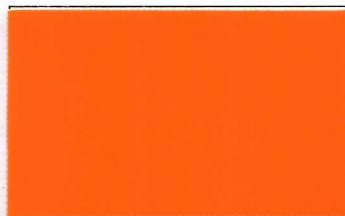
PLAM Yellow  
0L003

PY-191



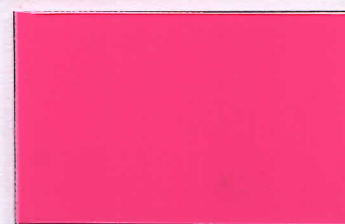
PLAM Orange  
1L008

PO-64



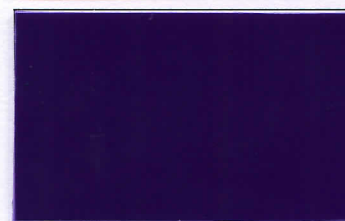
PLAM Red  
2L004

PR-48:3



PLAM Violet  
4L010

PV-23



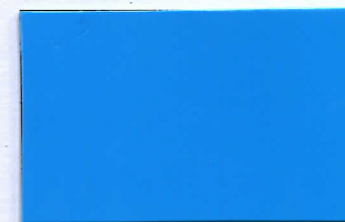
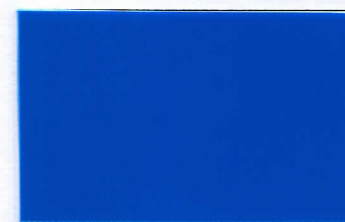
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5L005

PB-15:1



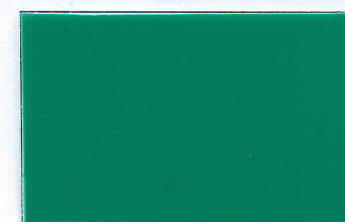
PLAM Blue  
5L020

PB-15:3



PLAM Green  
6L009

PG-7



品 名	CI Pigment No.	濃 色 Color: 0.5 PHR	淡 色 Color: 0.5 PHR PLAM WH:2.0 PHR
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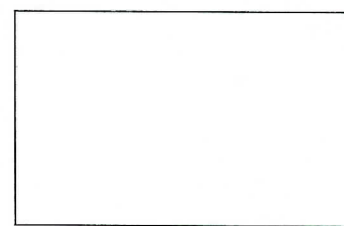
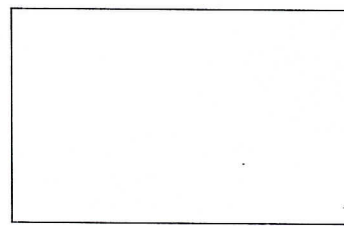
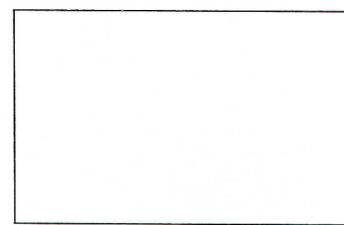
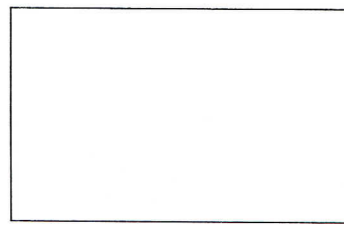
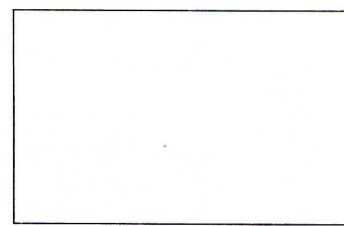
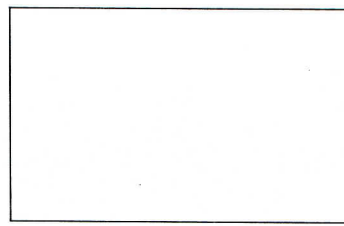
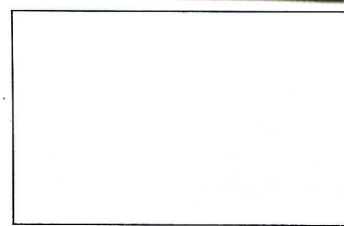
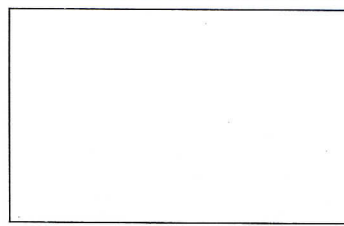
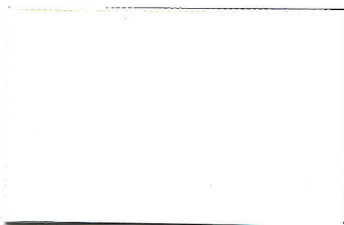
PLAM Black  
7L006

PBK-7



PLAM White  
8L007

PW-6



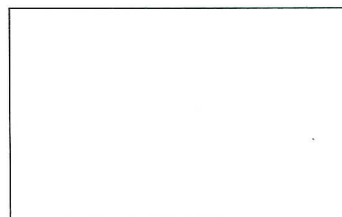
\*PLAM White 8L007

濃色: Color:2.0 PHR

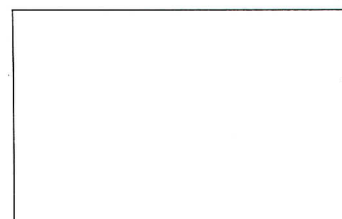
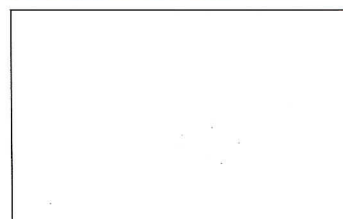
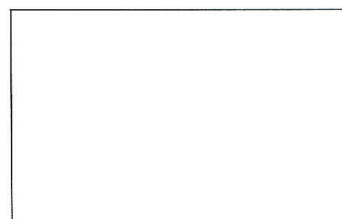
淡色: Color:2.0 PHR+PLAM BK 7L006:0.2 PHR

品 名	CI	濃色 Full Shade
Item Code	Pigment No.	Color: 4.0 PHR

PLAM SILVER  
9L027

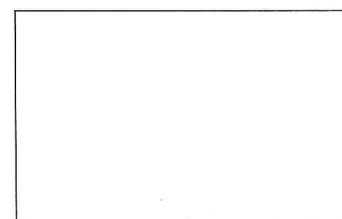


PLAM GOLD  
9L029

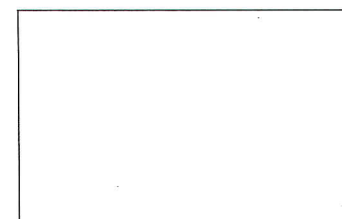
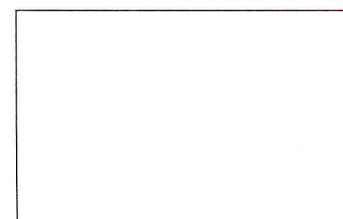
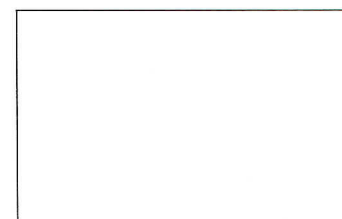


品 名	CI	濃色 Full Shade
Item Code	Pigment No.	Color: 6.0 PHR

PLAM GOLD  
9L034  
(BRONZE)



PLAM GOLD  
9L035  
(COPPER)

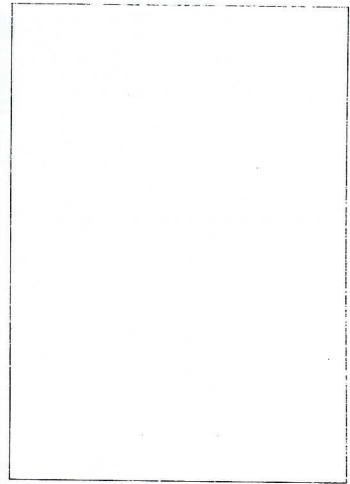


品 名  
Item Code

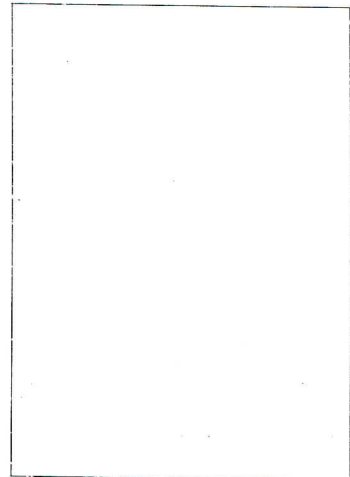
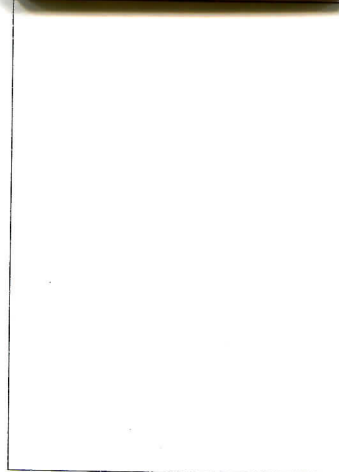
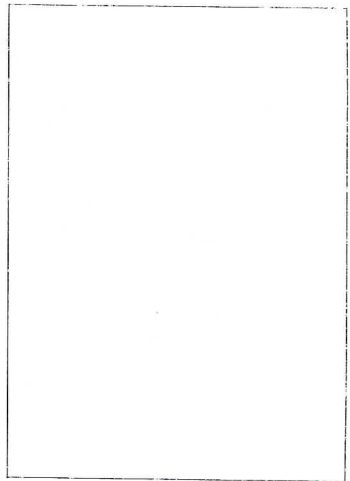
CI  
Pigment  
No.

濃色 Full Shade  
Color: 4.0 PHR

PLAM SILVER  
9L027



PLAM GOLD  
9L029

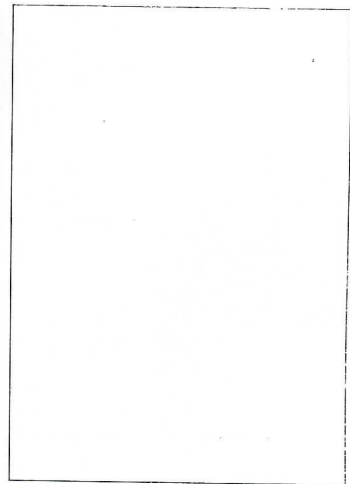


品 名  
Item Code

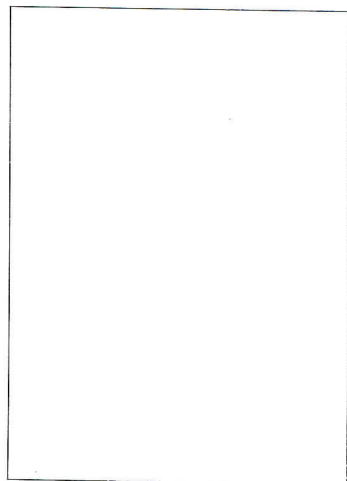
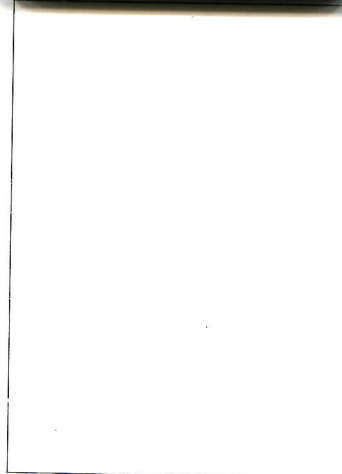
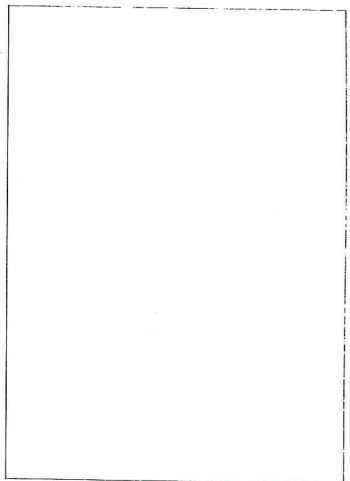
CI  
Pigment  
No.

濃色 Full Shade  
Color: 6.0 PHR

PLAM GOLD  
9L034  
(BRONZE)



PLAM GOLD  
9L035  
(COPPER)

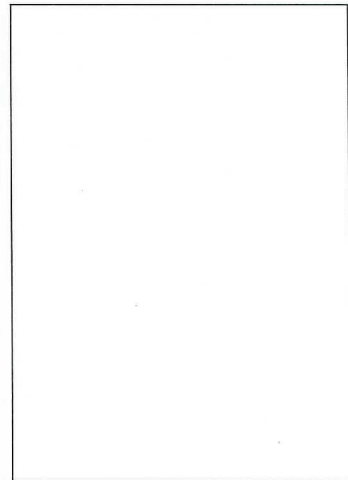


品 名  
Item Code

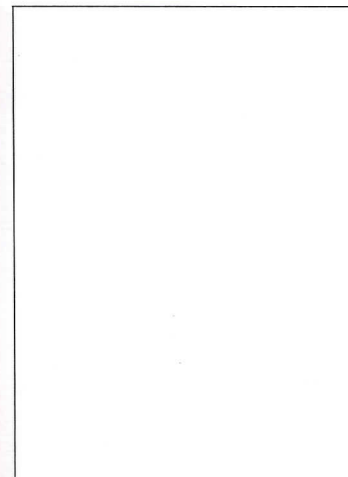
CI  
Pigment  
No.

濃色 Full Shade  
Color: 4.0 PHR

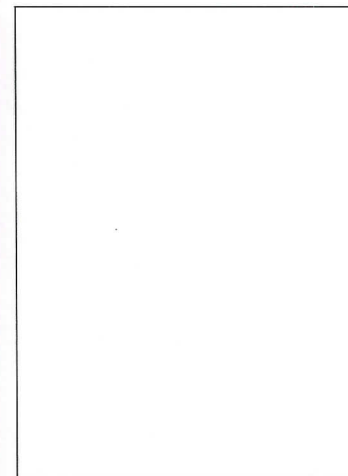
PLAM YELLOW  
0L043



PLAM ORANGE  
1L044



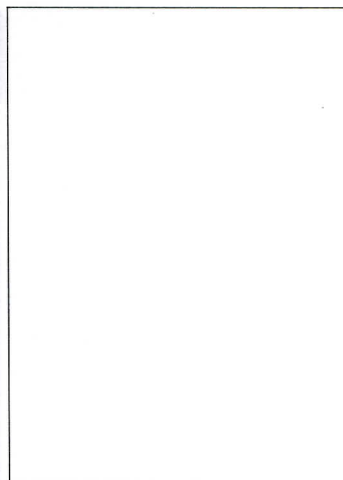
PLAM RED  
2L045



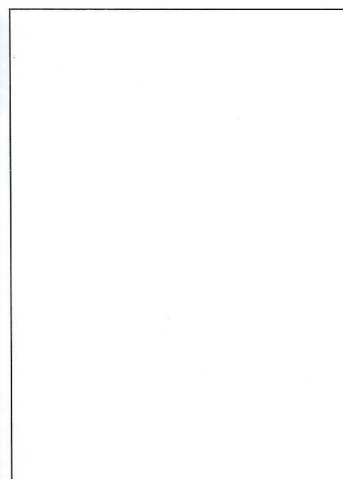


品 名 Item Code	CI Pigment No.	濃色 Full Shade Color: 4.0 PHR
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PLAM VIOLET 4L040		
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PLAM BLUE 5L046		
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PLAM GREEN 6L047		
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