

NPL Color 產品目錄說明

I. 序文(Introduction)

NPL Color 不含 Phthalate 及 PE 臘成份加工色料，其組成是將顏料、樹脂、可塑膠助劑等混合，經混練、分散工程加工製成之色砂狀色料，具有鮮艷之著色能力，分散性佳，使用計量容易，不飛揚、不沾手、調配色容易等之特性，適合應用於硬軟質 PVC 膠布加工及行星式膠布機加工製品之最佳著色劑。

II. 展色片

1. 組成(PVC Compound)

PVC 樹脂(Resin)	100
可塑劑(Plasticizer)	40
安定劑(Stabilizer)	3
硬脂酸鋅(Stearic acid Zine)	0.2

2. 濃色(Full Shade)

Color	有彩色	白色	黑色/紫色
PVC 組成	100	100	100
NPL Color	1	4	0.5

3. 淡色(Tint Shade)

Color	有彩色	白色	黑色/紫色
PVC 組成	100	100	100
NPL Color	1	4	0.5
NPL White NW016	4	—	4
NPB Black NW014	—	0.04	—

4. Sheeting Data

2' Roll 160±5°C ×3 min

Press 180°C ×150Kg/cm²×1min

III. 試驗方法

1. 耐光試驗

將試片置放於 Fade-O-Meter 中照射，以小時計數其結果，對照 Blue Scale 1-to-8 之級數，判斷耐光程度優劣。

2. 耐熱試驗

將試片置於烘箱中 $180\pm 2^{\circ}\text{C}$ ，30 分鐘，區分 1-5 等級判斷耐熱程度好壞。

3. 色移行試驗

將試片夾於兩片白色色片之間，置於烘箱 80°C ，加壓 $100\text{g}/\text{cm}^2$ ，24 小時，觀察白色色片移行現象，依 CIBA 測試判斷 4.0~5.0 級。
(Compound : 40 PHR-可塑劑, Color : 1.0 PHC)

4. 耐酸鹼試驗

將試片浸於 5%HC 或 10% NaOH，24 小時，其優劣區分 1-5 等級。

※ 表列物性級數依據大恭色料物性檢測規範測定。

※ 表列物性級數僅供參考，不同 Compound 組成及原料品質、加工條件亦會影響物性級數，色料使用前請再確認。

Catalog and Introduction of NPL Color

I. Introduction

NPL Color can comply with the restriction of phthalate which is without the content of PE wax. It is composed of pigment, resin, plasticizer, etc. After mixing and dispersion, it runs to master powder form pigment preparation and owns the advantages of brightness, excellent dispersion, easy metering, no dusting, and easy color dispersion. Applicable for soft and rigid PVC film. It's the best color for the PVCX production line which is equipped with planetary extruder.

II. Color sheet

1. PVC Compound:

PVC Resin	100
Plasticizer	40
Stabilizer	3
Stearic acid Zinc	0.2

2. Full Shade

Color	Color	White	Black/Violet
PVC Compound	100	100	100
NPL Color	1	4	0.5

3. Tint Shade

Color	Color	White	Black/Violet
PVC Compound	100	100	100
NPL Color	1	4	0.5
NPL White NW016	4	—	4
NPB Black NW014	—	0.04	—

4. Sheeting Data

2' Roll 160±5℃ ×3 min

Press 180℃ ×150Kg/cm²×1min

III. Test method

1. Light Fastness

The printed sheet is carried out of a specified in a Fade-0-Meter. Assessments were made using the 1-to-8 Blue Scale as to the degree of their fading and discoloration.

2. Heat Resistance

Test solution printed on the white or transparent sheet were left in an air circulating oven for 20minutes at $180^{\circ}\text{C} \pm 2^{\circ}\text{C}$, The change of shade is assessed on a 1-to-5 scale.

3. Migration Test

The test sheet is sandwiched between two white sheets and placed for 24 hours under a load of about $100\text{g}/\text{cm}^2$ and kept at a constant temperature of 80°C . The fastness of migration was judged by the extent of staining of white sheet and assessed on a 1-to-5 scale. (Compound:40 PHR-Plasticizer, and Color:1.0 PHC)

4. Chemical Resistance

Test color shade was dipped in 5% HCl or 10% NaOH for 24 hours change of shade is assessed on a 1-to-5 scale.

※ The following data and results are based on controlled or lab work and must be confirmed by Buyer by testing for the intended conditions of use.

大恭化學 NPB Color 產品目錄

Catalog of NPB Color

Full Shade	Tint Shade	Color Name	Light fastness		Heat Resistance	Migration Resistance	Chemical Resistance		
			Full Shade	Tint Shade			3N HCl	10% NaOH	10 Na2S·9H ₂ O
		Yellow NW001 PY-83	7	6-7	5	4-5	5	5	5
		Yellow NW002 PY-81	7	6-7	5	4-5	5	5	5
		Red NW003 PR-53.1	3	3	3-4	4	4-5	3-4	5
		Red NW004 PR-48:2	5-6	4	3-4	4-5	5	3	5
		Red NW005 PR-57.1	4	4	3-4	4	4-5	5	5
		Red NW006 PR-122	7-8	7-8	5	5	5	5	5
		Red NW007 PR-185	7	6-7	4	5	5	5	5
		Brown NW008 PR-101	8	8	5	5	5	5	5
		Violet NW009 PV-23	7-8	7	4-5	2	5	5	5
		Blue NW010 PB-15:1	8	8	4-5	4-5	5	5	5
		Blue NW011 PB-15:3	8	8	5	5	5	5	5

大恭化學 NPB Color 產品目錄
Catalog of NPB Color

[illegible]