

TUMN Color for TPU Calender

(Type of Thermoplastic Polyurethane: Polyester)

1. Description: TUMN is the colorants which are designed for TPU. This product has good dispersion, physical properties and coloration. It is suitable for TPU Calender and other related applications.
2. Appearance: Irregular Crusher
3. Product Code: TUMN can be custom-made by different requirements (ex. color shade, concentration, operations' process and physical properties).

Item Code	Color	Pigment No.	Light Fastness	Migration	Halogen*
TUMN YELLOW U0057	Yellow (Greenish)	PY-138	7-8	4.3-4.6	Not found
TUMN YELLOW U0058	Yellow (Reddish)	PY-191	6-7	4.4-4.6	Existed
TUMN RED U2086	Red (Yellowish)	PR-48:3	5-6	4.9	Existed
TUMN RED U2087	Red (Bluish)	PR-57:1	4-5	4.7	Existed
TUMN BLUE U5105	Blue (Reddish)	PB-15:1	7-8	4.9	Existed
TUMN BLUE U5106	Blue (Yellowish)	PB-15:3	7-8	4.9	Not found
TUMN GREEN U6039	Green	PG-7	8	4.9	Existed
TUMN BLACK U7132	Black	PBk-7	8	4.9	Not found
TUMN WHITE U8052	White	PW-6	8	5.0	Not found

* The amount of Halogen in the pigment structure definition was conducted according to IEC 61249-2-21:2003 and the each amount of Chlorine / Bromine < 900ppm, the total amount of Chlorine + Bromine < 1500ppm.

Remarks:

- a. The light fastness test was conducted according to ISO 105-B02 Blue Wool Scale from 1 to 8. The dosage of pigment: 0.2%. The condition of light fastness test: Xenon arc lamp irradiation energy $1.1\text{W/m}^2 \times 24\text{hrs}$.
 - b. The migration test was conducted according to CIBA-GEIGY grey scale and the rating from 1 to 5. The full shade dosage of pigment: 1.6% and white shade is used to TiO_2 3%. The condition of Migration test: $80^\circ\text{C} \times 100\text{g/cm}^2 \times 24\text{hrs}$.
 - c. The carry of TUMN Colorants is used to 70A TPU resin.
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 140~200°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

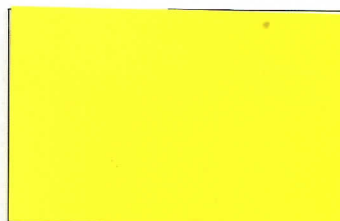
CI
Pigment
No.

Color:4.0PHR

Color:4.0PHR
TiO2:4.0 PHR

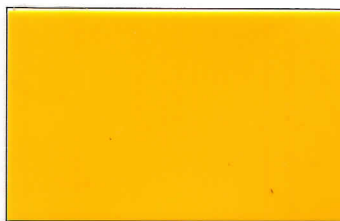
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PY-138



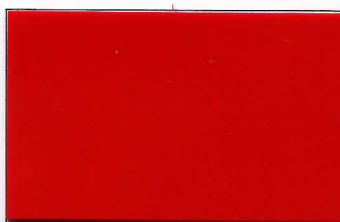
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PY-191



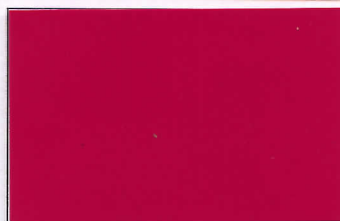
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PR-48:3



TUMN RD U2087

PR-57:1



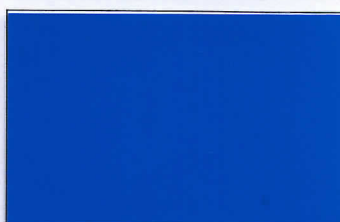
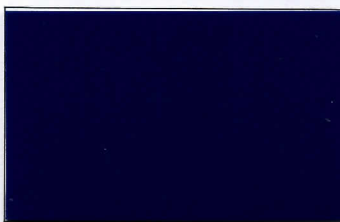
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PB-15:1



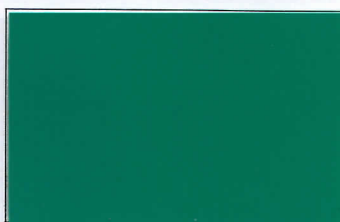
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PB-15:3



TUMN GN U6039

PG-7



品 名

CI
Pigment
No

Color:4.0PHR

Color:4.0PHR
TiO₂:4.0 PHR

TUMN BK U7132

PBK-7



品 名

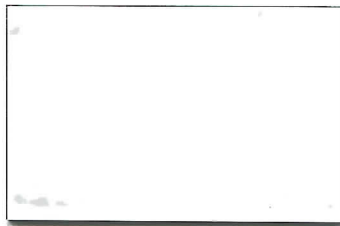
CI
Pigment
No

Color:4.0PHR

Color:4.0PHR
C. Black:1.0 PHR

TUMN WH U8052

PWH-6



TUMN Color for TPU Calender

(Type of Thermoplastic Polyurethane: Polyether)

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TUMN YELLOW U0051	Yellow (Greenish)	PY-138	7-8	4.7-4.8	Not found
TUMN YELLOW U0053	Yellow (Reddish)	PY-191	6-7	4.7-4.8	Existed
TUMN RED U2079	Red (Yellowish)	PR-48:3	5-6	4.9	Existed
TUMN RED U2080	Red (Bluish)	PR-57:1	4-5	4.8-4.9	Existed
TUMN BLUE U5101	Blue (Reddish)	PB-15:1	7-8	4.9-5.0	Existed
TUMN BLUE U5102	Blue (Yellowish)	PB-15:3	7-8	5.0	Not found
TUMN GREEN U6036	Green	PG-7	8	5.0	Existed
TUMN BLACK U7127	Black	PBk-7	8	5.0	Not found
TUMN WHITE U8050	White	PW-6	8	5.0	Not found

* The amount of Halogen in the pigment structure definition was conducted according to IEC 61249-2-21:2003 and the each amount of Chlorine / Bromine < 900ppm, the total amount of Chlorine + Bromine < 1500ppm.

Remarks:

- a. The light fastness test was conducted according to ISO 105-B02 Blue Wool Scale from 1 to 8. The dosage of pigment: 0.2%. The condition of light fastness test: Xenon arc lamp irradiation energy $1.1\text{W/m}^2 \times 24\text{hrs}$.
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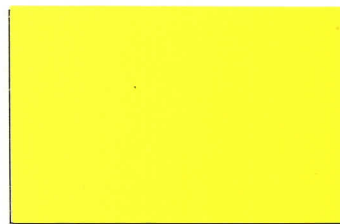
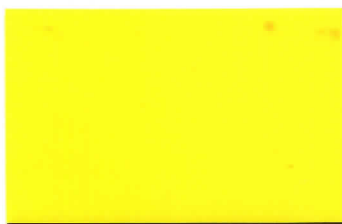
CI
Pigment
No.

Color:4.0PHR

Color:4.0PHR
TiO2:4.0 PHR

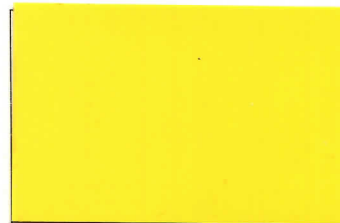
TUMN YL U0051

PY-138



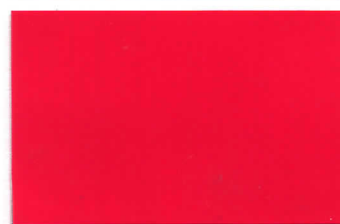
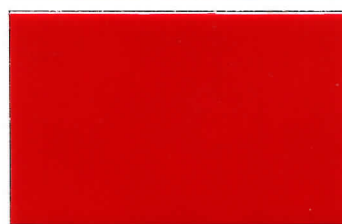
TUMN YL U0053

PY-191



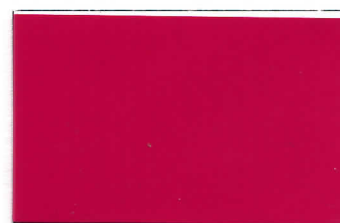
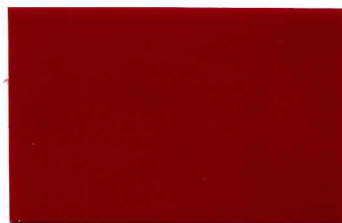
TUMN RD U2079

PR-48:3



TUMN RD U2080

PR-57:1



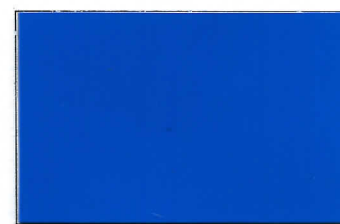
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PB-15:1



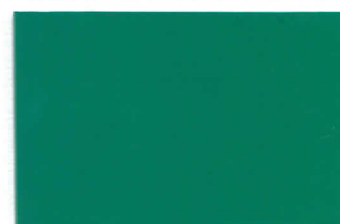
TUMN BL U5102

PB-15:3



TUMN GN U6036

PG-7



品 名
CI
Pigment
No.

Color:4.0PHR

Color:4.0PHR
TiO2:4.0 PHR

TUMN BK U7127

PBK-7



品 名
CI
Pigment
No.

Color:4.0PHR

Color:4.0PHR
C. Black:1.0 PHR

TUMN WH U8050

PWH-6

