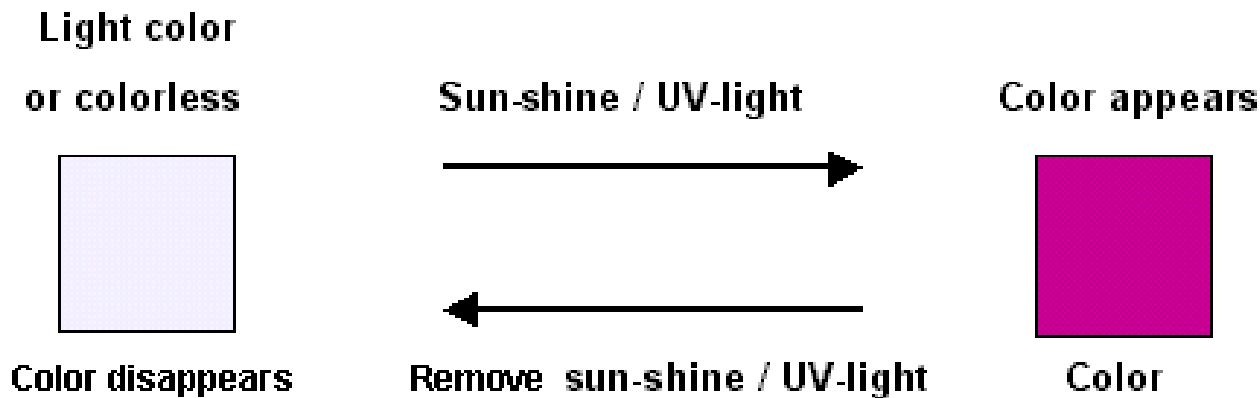




Photochromic Pigment

Normal Photochromic Pigments

- **Effect:** color appears under UV/sunlight



- **SGS Test Approval:**

EN71 Part 3

FDA 177.1520

SGS Certifications

ITEM NAME : PHOTOCROMIC PRODUCT - RED

MATERIALS SUBMITTED WITH SAMPLE : NONE

DATE SAMPLE RECEIVED : JUN. 24, 2002

DATE TEST STARTED : JUN. 25, 2002

TEST CONDUCTED :

AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGE.

CONCLUSION :

<u>TESTED SAMPLE</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLE	MIGRATION OF CERTAIN ELEMENTS - EN 71 : PART 3 : 1994 AND A1 APRIL 2000	PASS

SGS Certifications

ITEM NAME : PHOTOCROMIC PRODUCT -
(A) PP RED; (B) PP BLUE, (C) PP YELLOW, (D) PP PURPLE
QUANTITY : 2 PIECES PER COLOR
MATERIALS SUBMITTED WITH SAMPLE : NONE
DATE SAMPLE RECEIVED : NOV. 16, 2001
DATE TEST STARTED : NOV. 16, 2001

TEST CONDUCTED :

AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGE.

CONCLUSION :

<u>TESTED SAMPLE</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLES	POLYPROPYLENE - U.S. (FDA) 21 CFR PART 177.1520	PASS

Normal Photochromic Pigments

- **Successful Ink Application:**
 - (1) Thermal inks
 - (2) UV inks
 - (3) Security inks
- **The suitability for the polymers**
 - (1) PP
 - (2) PE

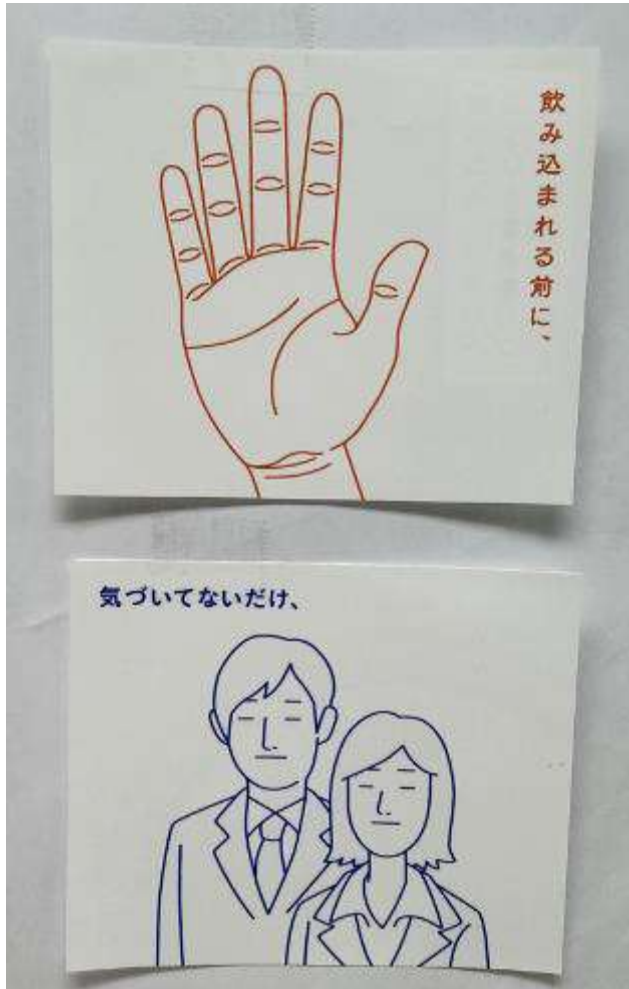
PHOTOCHROMIC CASE I



UV
light



PHOTOCHROMIC CASE II



UV light
➔



PHOTOCHROMIC CASE III

indoor



↓ **UV/Sunlight**

↓ **UV/Sunlight**

outdoor

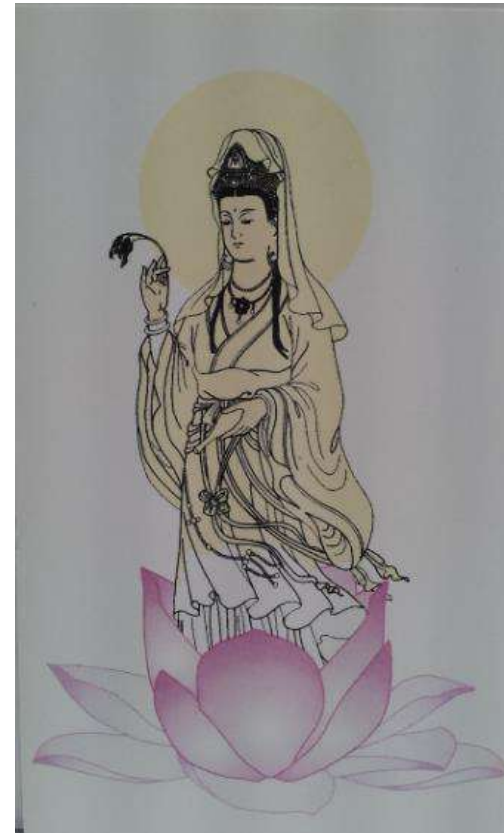


PHOTOCHROMIC CASE IV



indoor

→
**UV/
Sunlight**



outdoor

PHOTOCHROMIC CASE V



↓ UV/Sunlight



↓ UV/Sunlight



↓ UV/Sunlight



Summary

- Appears color under UV/Sunlight
 - (1) Normal grade
 - (2) BPA Free grade (BF) }

- Original colors: **6**
- New Colors : **10**