1. No:

CT13-02298

Reissuance (R1)

Date: Feb. 13, 2013

2. Client:

O Name: Shindo Industry

O Address: #1378-3, Seonyu-ri, Munsan-eup, Paju-si, Kyunggi-do, Korea

O Date of Receipt: Jan 8, 2013

O Date of Issued:

Feb 13, 2013

3. Use of Report:

Quality control

4. Test Sample: Flexible delineator post

5. Method:

(1) RS-FITI-2010-032

(2) KS A 3507 : 2010

Affirmation

Tested By

Name :

Joon Young Heo

Technical Manager

Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the qualities of the lot from which the sample was taken or of apparently identical or similar products.

Korea Conformity Laboratories President Song Jae Bin Jour Bin Song

Address: 153-803 459-28, Gasan-Dong, Geumcheon-Gu, Seoul, Korea 82-2-2102-2500

Result Inquiry: Polymer Materials Team 82-2-2102-2663

No: CT13-02298

6. Test Results

1) Flexible delineator post (Body)

Test Item(s)	Unit	Test method used	Test Result(s)
Hardness(Type A)	_	(1)	93
Tensile strength	МРа	(1)	34.6
Elongation	%	(1)	660
Tear strength	N/cm	(1)	1 129
Accelerated weathering test – Color difference(Δ*Eab)	-	(1)	6.6

2) Flexible delineator post (Reflective sheet(White))

Test Item(s)	Unit	Test method used	Test Result(s)
Coefficient of retroreflection (Coservation angle:0.2°, Entrance angle:-4°)	cd/(x · m [*])	(1)	432
Coefficient of retroreflection (Observation angle:0.2°, Entrance angle:30°)	cd/(lx·m [*])	(1)	322
Coefficient of retroreflection (Cosservation angle:0.5°, Entrance angle:-4°)	cd/(x·m*)	(1)	433
Coefficient of retroreflection (Observation angle:0.5°, Entrance angle:30°)	cd/(lx·m³)	(1)	159
Accelerated weathering test – Coefficient of Petroreflection retention	%	(1)	86
Chromaticity (x)	_	(2)	0.307
Chromaticity (y)	-	(2)	0.326

No: CT13-02298

3) Flexible delineator post (Reflective sheet(Yellow))

Test Item(s)	Unit	Test method used	Test Result(s)
Coefficient of retroreflection (Observation angle:0.2°, Entrance angle:-4°)	cd/(lx·m [*])	(1)	410
Coefficient of retroreflection (Observation angle:0.2°, Entrance angle:30°)	cd/(lx · m ^t)	(1)	260
Coefficient of retroreflection (Observation angle:0.5°, Entrance angle:-4°)	cd/(lx · m ^t)	(1)	364
Coefficient of retroreflection (Observation angle:0.5°, Entrance angle:30°)	cd/(x · m ^t)	(1)	89
Accelerated weathering test – Coefficient of retroreflection retention	%	(1)	84
Chromaticity (x)	-	(2)	0.497
Chromaticity (y)	-	(2)	0.463

▶ Accelerated weathering test - Weather - 0 - Meter, Xenon Arc Type

Irradiance: 0.35 W/m² (340 nm)

Test Duration: 500 h

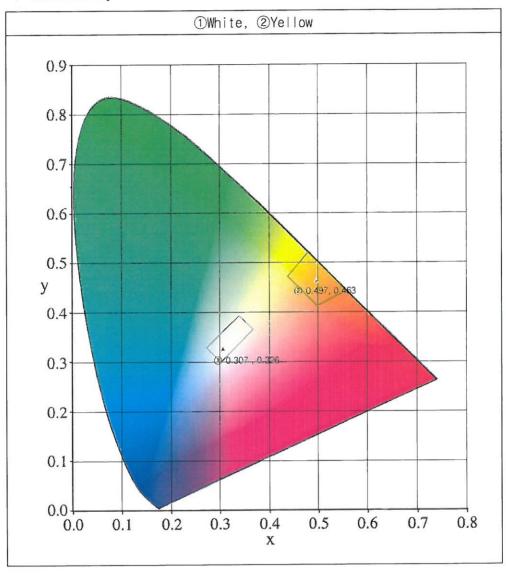
Cycle: 102 min Light only & 18 min Light and spray

(63±3) ℃ Black Panel Temperature

 (50 ± 5) % Relative Humidity

No: CT13-02298

▶ Chromaticity coordinates



No : CT13-02298

[Samples]



---- End of Report ----

Electronic Document Version

TEST REPORT

1. No: CT12-23123

2. Client

O Name: SHINDO INDUSTRY

Reissuance (R1)

Date : 2012.7.4

o Address: #922-3 Dongpae-ri, Gyoha-eup, Paju-si, Kyunggi-do, KOREA

Date of Receipt : May. 08, 2012Date of Issued : May. 24, 2012

3. Use of Report: Quality Control

4. Test Sample: Flexible Delineator Post

5. Test Results

Refer to Attached Pages

▶ Sample ;



Affirmation

Tested by Jae Won Eom

474

Technical Manager Song Won Lee

S.W. Lee

Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified.

The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.

Korea Conformity Laboratories President Jae Bin Song

Jae Bin Song

Address: 153-803 459-28, Gasan-Dong, Geumcheon-Gu, Seoul, Korea 82-2-2102-2500

Result Inquiry : 82-2-2102-2666

No : CT12-23123

Test It	ems	Unit	Test Results	Test method used
Accelerated	Appearance	Grade	3-4	GR M 6022:2003
Weathering Test	(Grey scale)	drade	0 4	dit iii 0022-2000

- ▶ ┌ 1) Weather-O-Meter, Carbon Arc Type (lamp 1EA)
 - ├ 2) Cycle: 102 min Light only & 18 min Light and Spray
 - ├ 3) Test Duration : 250 h
 - \vdash 4) (63 \pm 3) $^{\circ}$ C Black Panel Temperature
 - \perp 5) (50 \pm 5) % Relative Humidity

---- End of Report ----