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TEST REPORT

APPLICANT : MIRACLE IND. CO., LTD.

REPORT NO.

: 41-48-03-33991

SAMPLE RECEIVED DATE : 2003-12-02

TEST STARTED DATE

: 2003-12-02

REPORT ISSUED DATE : 2003-12-17

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SAMPLE DESCRIPTION : TWO(2) PIECES OF SUBMITTED SAMPLE SAID TO BE ROAD PAVEMENT MARKER.

COLOR NAME : #1 WHITE, #2 YELLOW

TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETALS PLEASE SEE ATTACHED PAGES.

PREPARED AND CHECKED BY FOR FITI

Ean Park EUN, PARK

QUALITY MANAGER

AUTHORIZED BY FOR FITI

HO CHUL, KIM EXECUTIVE DIRECTOR

Hochel Kim.

The test results contained in this report are limited to results on the sample(s) that is provided by the client and are not necessarily indicative or representative of the qualities of the lot from which the sample(s) was taken or of all products, Results contained in this report are not based on the quality certification of sample by the FITI quality certification program unless specifically requested by the client, Further use of the results of this report is prohibited unless allowed under a separate agreement set forth in an official document that is established between the client identified on this letter and the FITI,

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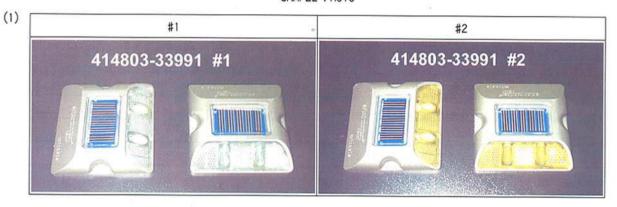
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TEST CONDUCTED

TEST RESULTS

- SAMPLE PHOTO -



(2) LENS IMPACT STRENGTH (ASTM D 4280) : APPEARANCE

#1	NO RADIAL CRACKS OF DELAMINATION
#2	NO RADIAL CRACKS OF DELAMINATION

NOTE) OBSERVED THE APPEARANCE CHANGE AFTER DROP TEST HALF-SPHERE OF RADIUS 6.4mm. WEIGHT 190g WAS DROP FROM REFLECTOR ABOVE 457mm, CONDITION FOR 55℃ 1h.

(3) COMPRESSIVE STRENGTH (ASTM D 4280) : APPEARANCE

# 1	WITHOUT BRAKAGE OR SIGNIFICANT DEFORMATION
# 2	WITHOUT BRAKAGE OR SIGNIFICANT DEFORMATION

NOTE) OBSERVED THE APPEARANCE CHANGE AFTER 2727kgf COMPRESSION LOAD TEST WITH THE CENTER OF CYLINDER ROD.

(4) TEMPERATURE CYCLING (ASTM D 4280) : APPEARANCE

#1	NO CRACKING OR DELAMINATION	
#2	NO CRACKING OR DELAMINATION	

NOTE) OBSERVED THE APPEARANCE CHANGE AFTER 3CYCLES OF 60°C FOR 4h. FOLLOWED BY -7°C FOR 4h.

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TEST CONDUCTED

TEST RESULTS

(5) COEFFICIENT OF RETROREFLECTION (ASTM D 4280) : mcd/lux

OBSERVATION ANGLE(°)	ENTRANCE ANGLE (°)	#1	#2
0. 2	β 1= 0	453.5	252.8
	β 2= 0		
	β 1= 0	220.0	131.4
	β 2=+20	238.9	
	β 1= 0	249.3	135.5
	β 2=-20		

(6) COLOR (ASTM D 4280)

	#1	#2
Х	0.453	0.559
У	0.440	0.439

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