# Glodian™ HIP

# **High Intensity Prismatic Reflective Sheeting**

Glodian™, HIP is a prismatic reflective sheeting with high level of retroreflectivity suitable for providing information to the drivers in various traffic situations.

This complys with the specification ASTM D 4956-11, Type III and Type IV.



Traffic signs, Delineation devices etc.

## **Feature**

Long service life, screen printable, easy for computer cutting Pressure sensitive adhesive type 10 years durability for white and colors 3years durability for fluorescent colors

Size: 122cm x 50yd per 1roll

Packing: 1,295mm x 230mm x 240mm per 1box has 1roll

G.weight: 32kgs per 1box

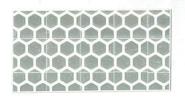
For further information, visit www.reflomax.com or send an email.



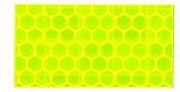
# REFLOMAX CO., LTD.

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01 White



02 F.Yellow-Green



03 Yellow



04 F.Orange



05 Orange



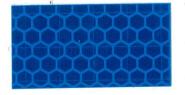
07 Red



09 Green



11 Blue





## **Product Guidance**

REFLOMAX GLODIANTM HIP Series is a non-metalized microprismatic reflective sheeting designed for production of reflective durable traffic control signs, work zone devices and delineators that are exposed vertically in service.

Since highly retroreflective microprisms are formed by hard polymer on flexible, UV-stabilized polymeric film REFLOMAX GLODIANTM HIP Series are very durable and hardwearing so that they keep the initial reflective performance for a long time.

It complies ASTM D4956-11, Type  ${\rm I\hspace{-.1em}I}$  and Type  ${\rm I\hspace{-.1em}I}$ .

Colored backing film is sealed on the backside of GLODIANTM reflective film and GLODIANTM HIP Series is Pressure Sensitive Adhesive type.

#### 1. Color

10 colors are available

(White, F.Yellow-Green, Yellow, F.Orange, Orange, Red, Green, Blue, Brown, F.Yellow)

#### 2. Retroreflective Performance

The Retroreflective performance is measured in accordance with the procedure defined in CIE 54:1982. Measures values are averages taken from 90. orientation, apart unless stated differently. The 0° orientation is to be taken as downweb of REFLOMAX supplied rolls.

The values are stated as coefficients of Retroreflection, RA and the unit is cd/lux/m<sup>2</sup>

Item	Obs. Angles	Ent. Angles	Typical R <sub>A</sub>	Standard RA
HIP-01 White	0.2。	-4.	400	360
		30。	190	170
	0.5,	-4。	165	150
		30.	80	72
HIP-03 Yellow	0.2.	-4,	300	270
		30。	150	135
	0.5。	-4。	120	110
		30.	60	54
HIP-05 Orange	0.2。	-4.	160	145
		30.	75	68
	0.5。	-4,	70	60
		30.	31	28
HIP-07 Red	0.2。	-4,	72	65
		30,	33	30
	0.5。	-4,	30	27
		30。	15	13
HIP-09 Green	0.2。	-4,	55	50
		30,	27	25
	0.5。	-4,	23	21
		30。	11	10
HIP-11 Blue	0.2。	-4.	32	30
		30。	15	14
	0.5。	-4.	13.5	13
		30,	6.5	6

### 3. Size and Packing

Roll Size: 122cm×50yd

Packing: One roll per one carton box

SQ.M per Roll: 55.7 m<sup>2</sup>

### 4. Physical Properties (Test Method - ASTM D4956-11)

① Liner Removal: No Break, No Tear

② Adhesion: 33.2mm

③ Impact Resistance: No Crack Note) Drop Weight: 1.0kg

④ Flexibility : No Crack

⑤ Shrinkage: 2.33mm / 1.83mm Note) Length / Width

### 5. Adhesion

REFLOMAX GLODIANTM HIP Series has a pressure-sensitive adhesive that is recommended for room temperature application. Room temperature application is defined as 18℃~25℃

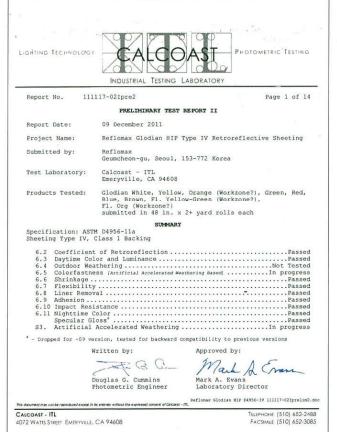
Store in a cool dry area and use within 1 year after date of receipt.

Store rolls in their original shipping cartons. Partially used rolls should be returned to their shipping carton

Technical data can be changed with product improvement. The above data are the average of test results at the normal test condition.

While the use of reflective material does greatly enhance visibility, no reflective material can assure absolute visibility, particularly in adverse weather conditions.

Performance will vary depending upon actual use, exposure conditions and maintenance. Users should test reflective material to satisfy conformance to their own requirement.





TEST CONDUCTED

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TEST RESULT

(01) COEFFICIENT OF RETROREFLECTION ( ASTM D 4956:2009 ) : cd/lx · m

OBSERVATION	ENTRANCE ANGLE (* )	COEFFICIENT OF RETROREFLECTION		
ANGLE(" )		AS RECEIVED	AFTER 2200 h WEATHERING	
0.2	-4	478.9	435.4	
	30	345.0	316.1	
0.5	-4	413.3	361.0	
	30	99.9	94.2	

NOTE) WEATH-ERING CONDITION: WEATH-ER-O-WETER, XENON-ARC-LAMP,
120 MIN LIGHT (102 MIN LIGHT, 18 MIN SPRAY + LIGHT),
EMPCSUME FOR 2200 N,
B.P.T.: (66 ± 3) °C:
HERADIANCE: 0.35 W/m\* @ 340 mm
- INDER FILTER: BORDSILICATE
- OUTER FILTER: BORDSILICATE

#1

0.3091

(02) CHROMATICITY ( ASTM D 4956:2009 )

CO-ORDINATE x CO-ORDINATE y

NOTE) CIE-O<sub>65</sub>, 2°, 45/0 TYPE
THE SPECIMEN HAD A BLACK UNDERLAY,
MEASURING INSTRUMENT: SPECTROPHOTOMETER CM-2500c(KONICA MINOLTA). MEXICATING INSTRUMENT : SPECTROPHUTUMETER OF CAPACITY OF SECULAR SEC