



FLEXIBLE HIP



76, Pureundeulpan-ro, 1010beongil, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18525, Rep. of Korea



TEL +82 (0)31-8014-9724 FAX +82 (0)31-8059-2130



www.reflomax.com

Specifications

Introduction

REFLOMAX GLODIAN $^{\rm TM}$ Flexible HIP is highly reflective, weather-proof, self-adhesive films with excellent corrosion and solvent resistance. The product was developed especifically for the manufacture of traffic signs intended for long term vertical outdoor use.

Reflective

REFLOMAX GLODIANTM Flexible HIP fully mee the minimum performance requirements of ASTM D4956 Type IV. The required minimum retroreflection values, as shown in tables 1, which are measured in accordance with the corresponding specifications using CIE54:1982.

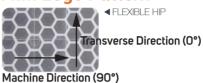
Application | Processing

REFLOMAX GLODIANTM Flexible HIP developed especially for traffic sign applications. Substrate onto which the material will be applied must be thoroughly clean. The substrate must be free of dust, oil, fats, silicon or other contamination. REFLOMAX GLODIANTM Flexible HIP optimized for the application onto flat substrates of aluminum alloys or galvanized steel. For other applications, the user is fully responsible for evaluating the suitability of the product, and for any risks associated with that use.

Adhesive

REFLOMAX GLODIAN™ Flexible HIP series have a presure-sensitive adhesive which is recommended under room temperature application. Room temperature application is defined as 18°C~25°C(64°F~77°F).

Film Logo Pattern



Note

All REFLOMAX GLODIAN™ products are manufactured within an ISO 9001:2015 controlled manufacturing environment.

Table 1 Retroreflectivity for new sheeting (cd/lx/m²) as per ASTM D4956

Table 1 - Specific coefficient of retroreflection (ASTM D4956-17 Type IV sheeting)									
Observation angle	0.1°		0.	2°	0.5°				
Entrance angle	-4°	30°	-4°	30°	-4°	30°			
White	500	240	360	170	150	72			

Table 2 Color Specification Limits (Daytime)

Table 2 - Chromaticity Coordinates (ASTM D495)									
COLOR		1		2		3		ļ	Luminance Factor (Y%)
	х	У	x	У	х	у	x	У	
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	> 27

Table 3 Color Specification Limits (Nighttime)

Chromaticity Coordinates*									
COLOR		1		2		3		4	
	x	У	x	У	X	У	x	у	
White	0.475	0.452	0.360	0.415	0.392	0.370	0.515	0.409	

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Specifications & Application Instruction

Application Instruction

Processing Instructions

This application instruction is intended to explain proper methods to apply REFLOMAX GLODIAN™ Flexible HIP to traffic sign. Even though it is impossible to explain all aspects to be taken into account, this application instruction incorporates many useful tips for handling REFLOMAX GLODIAN™ Flexible HIP series.

The sign producers who will use REFLOMAX GLODIAN™ Flexible

HIP should observe this application instruction to produce their signs in right way for traffic sign in coordance with: ASTM D 4956 Type 4, KS T 3507 Type 4, AS/NZS 1906.1:2017 Class400, EN12899-1 Class RA2, GB/T 18833 Class 4, GOST 32945 Class 2, JIS Z 9117 Type 2-A-a & 2-A-b.

Also, specific knowledge and skills of sign production are prereguisites for the processing of REFLOMAX GLODIAN™ Flexible HIP.

Size & Package

 Roll Size 123cm x 45.7m (48.4in x 50yds)

 Package Size 1,290mm x 215mm x 220mm (50.79" x 8.46" x 8.66")

 Net Weight 31 kgs (68.3lb) per roll · Gross Weight 29 kgs (63.9lb) per roll

Storage & Transportation

1) REFLOMAX GLODIAN™ Flexible HIP series are supplied in cartons specially made considering the roll sizes.

The roll should be stored in the original carton with standard spacers provided with the product. These spacers minimize formation of pressure marks and surface damage which may be createdf from impact from outside.

Please make sure that partly processed rolls should also be stored in the same condition.

2) REFLOMAX GLODIAN™ Flexible HIP series should be stored in a cool, dry indoor place, away from direct sunlight. Recommended temperatures for storage are from 18°C~24°C (65°F~75°F) and from 46% to 60% in R.H.

3) It is advisable to stay rolls in horizontal condition.

If the rolls are stored vertically, it may have a negative influence on the film's characteristics.



Important

Durability

The durability of REFLOMAX GLODIAN™ Flexible HIP and finished signs will be dependent upon substrate selection and preparation, compliance with recommended application procedures, geographic area, exposure conditions, and maintenance.

Maximum durability of REFLOMAX GLODIAN™ Flexible HIP can be guaranteed in applications with vertical exposure on stationary objects when processed and applied to properly prepared aluminum, pursuant to Reflomax's recommendations. Periodic sign inspection and regular sign replacement are strongly recommended for sign owners to ensure their own effective service life and warranty for the durability, if provided.

Substrate

The user must determine the suitability of any nonmetallic sign backing for its intended use. Applications to unprimed, excessively rough or non-weather resistant surfaces can deteriorate the performance of such applications.

Exposure

Exposure to severe or unusual conditions can deteriorate the performance of such applications. Signs in mountainous areas where are covered by snow for a long time may also shorten the durability. Atmospheric conditions in certain geographic areas may result in reduced durability.

Splice

There could be one splice per roll and in case of roll with splice, additional meter will be provided.

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Specifications &Application Instruction

Warranty

No warranty is given for the purposes other than those listed in the Specifications Sheet or which are not processed in compliance with Reflomax's processing and handling instructions. The durability of the signs will depend upon various factors, including but not limited to substrate selection and preparation, compliance with recommended application guidelines, geographic area, exposure conditions and maintenance of the product and finished sign. Imperfect sign caused by the substrate or improper surface preparations are not under the responsibility of Reflomax.

For further information, please see full warranty instrument available at www.reflomax.com.

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