Product Guidance

TABLE B.
The minimum Coefficient of Retroreflection R_A.

Item	Observation Angles	Entrance Angles	R_A
HIP-01 White	0.2˚	-4˚	360
		30˚	170
	0.5˚	-4˚	150
		30˚	72
HIP-03 Yellow	0.2˚	-4˚	270
		30˚	135
	0.5˚	-4˚	110
		30˚	54
HIP-07 Red	0.2˚	-4˚	65
		30˚	30
	0.5˚	-4˚	27
		30˚	13
HIP-11 Blue	0.2˚	-4˚	30
		30˚	14
	0.5˚	-4˚	13
		30˚	6

5. Adhesive

AVS 4000 HIP Series has a pressure-sensitive adhesive that is recommended for application a temperatures of 18℃ or higher..

6. Physical Properties
(Test Method – ASTM D 4956:2013)

The following properties shall conform to the requirements in ASTM D4956.

1) Adhesion
2) Outdoor weathering
   - Colorfastness
   - Coefficient of retroreflection after exposure
3) Shrinkage
4) Flexibility
5) Liner removal
6) Impact resistance
7) Nighttime color

In addition, adhesion test data is as follows,

1) Adhesion 180 degree peel test
Test Method – Apply the sheeting to a test panel, 1.0mm minimum thickness, prepared aluminum plate(A5052). Bond 100mm of a 25mm by 250mm specimen to a test panel. Then place exposure at a temperature 23 , 2E and 50 , 5% relative humidity for 24 hour prior to testing. Measure 180 degree adhesion peel test using a UTM(Universal testing machine).
Test Result – Typical Adhesion Strength is 2.5 kg·f.

7. Storage

y1ER. Hs I PEET)Ra IR.In 3R.,.RIvTa I1L 7 :pL lS) 80 p0 R.TI1Ho. cfCH)H1a ls) fX. 4H1cHs 7 a.IR I,1.R)I1. E, R.P.H31d y1ER. RETTX Hs 1c.HR ERHiHsIT XcH33Hsi PIR1EsXd MIR1HITTa fX.) RETTX X R.1fRs.) 1E 1c.HR XcH33Hsi PIR1Esd
NoEH)vls)Hsin PRI1Hsin ER X1IPSHsi XHisXd MIPSIi. ,ER XcH3C.s1 Hs IPPER)IsP. 4H1c PECC.RPHITTa IPP.31.) X1Is)IR)X 3R.o.s1 CEo.C.s1 ls) Pcl,Hsid y1ER. XHis 3IPSIi.X Hs)EERX Es .)i.Xd
MIs.TX ER,HsHXc.) XHisX CfX1 R.CIHs)Ra)fRHsi XcH3C.s1 ls) X1ERIi.d h, 3IPSIi.) XHisX v.PEC. 4.1n fs3IPS HCC.)HI1.Ta ls) ITTE4XHisX 1R Rad

gc. 3.R,ERCIsP. E, AVS 4000 4 4 0 04
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04 4 4 04 4 4 4
0

Product Guidance

The performance of REFLOMAX GLODIAN™ HIP Series will depend on a variety of factors, including substrate selection and preparation, compliance with recommended application procedures, geographic area, exposure conditions, and maintenance.
Maximum durability of GLODIAN™ HIP Series can be expected in applications subject to vertical exposure on stationary objects when processed and applied to properly prepared aluminum. The user must determine the suitability of any non-metallic sign backing for its intended use. Sign failures caused by the substrate or improper surface preparation are not the responsibility of REFLOMAX.

9. Note

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

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

3) GLODIAN™ HIP is suitable to be attached onto aluminum. Stainless steel is not recommended as a signing substrate.

4) Plastics substrates, such as polyolefins, fiberglass, recycled plastic sheets, transparent acrylic / polycarbonate panels, etc., may vary by composition and manufacturing process. Their use as a signing substrate requires cautious consideration. Many plastics may outgas or contain substances that may migrate to the surface of the substrate and effect adhesion.

5) A Sign's failure to meet the REFLOMAX Warranty must be solely the result of the Product, manufacturing defects.
REFLOMAX has no obligation under the warranty if a sign failure is caused by the following.
- Improper fabrication, handling, maintenance or installation.
- Non-vertical applications where the sign face is more than ±10% from vertical.
- Failure of sign substrate.
- Loss of adhesion due to incompatible or improperly prepared substrate
- Exposure to chemicals, abrasion and other mechanical damage.
- Collisions, vandalism or malicious mischief.