

## KIWALITE Prismatic HIP Reflective Sheeting #55000 Series

### Description

KIWALITE Prismatic HIP Reflective Sheeting #55000 Series is a type of prismatic reflective sheeting with eminent retroreflective property equivalent to or beyond encapsulated glass beads reflective sheeting. This product is suitable for fabrication of regulatory signs, warning signs, or arrow road signs of main roads.

Pressure sensitive adhesive coated on the back side makes easy application. Signs are finely fabricated with combination of screen printing and applying different color reflective sheeting or transparent color films.

### Color Availability, Product code No. and Standard size

Color	Product Code No.
White	#55013
Yellow	#55043
Red	#55063
Green	#55073
Blue	#55083

Standard Width : 1230mm (48 inch)

Standard Length : 45.7m (50 yds)

### Photometric performance

Minimum Coefficient of Retroreflective values of KIWALITE Prismatic HIP Reflective Sheeting #55000 Series when measured in accordance with CIE Publication 54.2, using CIE standard illuminant A, are shown in Table 1.

Table 1 : Minimum Coefficient of Retroreflective values ( $R_A$ ) ( $cd/lx/m^2$ )

Observation Angle	Entrance Angle	White #55013	Yellow #55043	Red #55063	Green #55073	Blue #55083
0.1°	-4°	500	380	90	70	42
	+30°	240	175	42	32	20
0.2°	-4°	360	270	65	50	30
	+30°	170	135	30	25	14
0.5°	-4°	150	110	27	21	13
	+30°	72	54	13	10	6

## Day-time color - Specification Limits

The day-time chromaticity co-ordinates and luminance factor of KIWALITE Prismatic HIP Reflective Sheeting #55000 Series when measured in accordance with CIE Publication 15, using CIE standard daylight illuminant D65 and the standard CIE 45/0 viewing conditions, conform to Table 2.

Table 2 : Day-time color Specification Limits

Color	Specification Limits								Luminance (%)	
	1		2		3		4		Min	Max
	x	y	x	y	x	y	x	y		
#55013 White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	27	—
#55043 Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.438	15	45
#55063 Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	2.5	15
#55073 Green	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771	3	12
#55083 Blue	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1	10

## Instructions

### 1.Application

KIWALITE Prismatic HIP Reflective Sheeting #55000 Series has a pressure-sensitive adhesive on the back that should be applied at room temperature (18 to 28°C). Application procedure and devices are same as KIWALITE Engineering Grade or KIWALITE High Intensity Grade. Flat aluminium alloys are recommended for substrate of road signs. Always pretest your specific substrate prior to application.

### 2.Printing / Cut Letter

Fine signs with KIWALITE Prismatic HIP Reflective Sheeting #55000 Series can be obtained by overlaying with KIWALITE reflective sheeting and KIWACAL transparent color films, or screen printing with transparent process inks are available.

For screen printing, KIWALITE screen printing ink KSP series which is fast dry one component ink is available.

For transparent color film for cut letters, KIWACAL FF-GF Series and LF-AF Series film are available.

## Durability

KIWALITE Prismatic HIP Reflective Sheeting #55000 Series has at least 10-year durability when properly processed and applied in accordance with KIWALITE manuals and advices.

## Storage and Shelf Life

KIWALITE Prismatic HIP Reflective Sheeting #55000 Series should be stored in a cool, dry area, preferably at 18 - 28°C and 30 - 60% relative humidity in accordance with KIWALITE manuals and advices, and should be used within one year from date of delivery. For the details of storage, see KIWALITE instruction manual "No.KM-40004 Instruction for Storage and Handling".

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**Terms and Conditions of Sales**

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