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KIWALITE Safety Grade Reflective Sheeting #9000 Series

Description

KIWALITE Safety Grade Reflective Sheeting #9000 Series is an enclosed-lens type reflective sheeting with numerous glass beads enclosed in transparent resin.

This reflective sheeting is suitable for outdoor use for relatively short period with the exllent reflective performance in the night. The major intended uses of KIWALITE Safety Grade Reflective Sheeting #9000 Series are construction sign, temporary sign, or stickers.

Color Availability, Product code No. and Standard size

Standard Color	Product Code No.			
White	#9013			
Yellow	#9043			
Orange	#9053			
Red	#9063			
Green	#9073			
Blue	#9083			

Custom Color (upon request)	Product Code No.		
Lemon Yellow	#9033		
Light Green	#9173		
Water Blue	#9183		
Brown	#9193		
Sky Blue	#9283		
Black	#9093		

Standard Width Standard Length

: 24inches, 48inches: 50 yards, 100 yards

Photometric Performance

Coefficient of Retroreflective values of KIWALITE Safety Grade Reflective Sheeting #9000 Series when measured in accordance with CIE Publication 54:1982 are shown in Table 1.

Table 1 : Coefficient of Retroreflective values (R_A) (cd/lx/m²)

Observation Angle	Entrance Angle	White	Yellow	Orange	Red	Green	Blue
		#9013	#9043	#9053	#9063	#9073	#9083
0.2°	+5°	35	25	10	7	5	1.3
	+30°	20	15	5	5	3.5	0.7

Performance Life

According to our test results and experiences, KIWALITE Safety Grade Reflective Sheeting #9000 Series can be expected to provide the effective performance life of approx. 18 months under normal mild climate and vertical installment when properly processed and applied in accordance with KIWALITE manuals and advices. However, the effective performance life depends upon substrate selection, preparation, compliance with our application instructions, exposure conditions and maintenance.

Application Instructions

1. Substrate

KIWALITE Safety Grade Reflective Sheeting #9000 Series can be applied on clean, durable and non-porous materials (e.g. alminium or coated steel plate). However, some materials (e.g. plastic plates) may contain release agent, oils, unreacted monomers, plasticizer, dyes or gases. Always pretest your specific substrate and confirm appropriate substrate is selected prior to application.

2.Application

KIWALITE Safety Grade Reflective Sheeting #9000 Series has a pressure sensitive adhesive on the back that should be applied at room temperature (18 to 28°C) by hand roller or squeeze roll applicator. Application procedure and devices are the same as for KIWALITE Engineering Grade #2000 Series or KIWALITE High Intensity Grade #22000 Series.

3. Printing / Cut Letter

KIWALITE screen printing ink KT-F Series (fast dry one component ink) is available. Although KIWALITE Inks are best suited for screen printing on KIWALITE Safety Grade Reflective Sheeting #9000 Series, general inks available in markets are also applicable on the sheeting. Always pretest general inks and confirm appropriate inks are selected.

Instead of printing with KIWALITE Inks, KIWACAL transparent color films, FF-GF Series and LF-AF Series films are available for digital cutting.

4.Cut

KIWALITE Safety Grade Reflective Sheeting #9000 Series can be cut by scissors, cutting knife, die cutting machine or cutting plotter.

Storage and Shelf Life

KIWALITE Safety Grade Reflective Sheeting #9000 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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The obligation of the manufacturer and seller shall be limited to the following scope. The manufacturer and seller shall be obligated only to replace the products which are proven to be defective. In no event shall the manufacturer or the seller be liable for any direct or consequential injury, loss or damage arising from the use of, or the incorrect use of the products. Before the use of the products, the user shall determine the suitability of the products. For the user's intended use and the user assumes all risk and liability whatsoever in connection therewith.

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