Feb-23

KIWALITE Engineer Grade Reflective Sheeting #2600 Series

Description

KIWALITE Engineer Grade Reflective Sheeting #2600 Series is a leading-edge reflective sheeting of glass-beads technology, having smooth and flat surface. The sheeting meets or exceeds requirements of ASTM D4956-19 Type1 Specification. The sheeting has excellent visibility at wider entrance angle than conventional engineer grade sheeting of enclosed lens type, and solvent inkjet printability. These prominent properties offer wider applications, from official traffic signs to conspicuous commercial signs, or functional safety appliances.

Color Availability, Product code No. and Standard size

Color	Product Code No.		
White	#2613		
Yellow	#2643		
Orange	#2653		
Red	#2663		
Green	#2673		
Blue	#2683		

Standard Width : 48inches

Standard Length : 45.7m (50yards)

Photometric performance

Minimum Coefficient of Retroreflecive values of KIWALITE Engineer Grade Reflective Sheeting #2600 Series when measured in accordance with ASTM D4956-19 are shown in Table 1.

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

Ü	Entrance Angle	White	Yellow	Orange	Red	Green	Blue
	(degree)	#2613	#2643	#2653	#2663	#2673	#2683
0.2	-4°	70	50	25	14	9	4
	+30°	30	22	7	6	3.5	1.7
0.5	-4°	30	25	13	7.5	4.5	2
	+30°	15	13	4	3	2.2	0.8

Day-time color - Specification Limits

#2673 Green #2683 Blue

The chromaticity co-odinates and luminance factor of KIWALITE Engineer Grade Reflective Sheeting #2600 Series when measured in accordance with CIE Publication no.15.2 using CIE standard illumination D65 and CIE 45/0 geometry conform to Table 2.

Specification Limits Luminance Color (%)4 1 2 3 Min Max Χ у Χ У Χ ٧ Х у 0.300 0.368 0.366 0.340 0.393 0.329 #2613 White 0.303 0.274 0.472 0.498 0.412 0.557 0.442 0.479 0.520 0.438 15 45 #2643 Yellow 0.558 0.352 0.636 0.364 0.570 0.429 0.506 0.404 10 30 #2653 Orange 0.351 2.5 0.565 0.346 0.629 0.281 0.735 0.265 0.648 15 #2663 Red

Table 2: Day-time color Specification Limits

Application

KIWALITE Engineer Grade Reflective Sheeting #2600 Series is a pressure-sensitive sheeting that should be applied at room by a squeeze roll applicator.

0.364

0.210

0.286

0.190

0.446

0.255

0.207

0.065

0.771

0.216

3.0

1.0

12

10

Substrates:

Flat Aluminum alloys comply with ASTM D4956-19 Standard are only recommended. Always pretest your specific substrate prior to application.

Plastic substrates are not recommended.

0.026

0.140

0.399

0.035

0.166

0.244

Adhesion properties:

Adhesion --- 51mm or less --- when measured in accordance with ASTM D4956-19 clause 7.5.

Resistance to Artificial Weathering

After the artificial weathering test by xenon weather-o-meter for 1,000 hours except #2653 Orange, KIWALITE Engineer Grade Reflective Sheeting #2600 Series retains more than 50% of the reflective values, and does not show significant colorfastness, cracking, blistering, or shrinkage.

Performance Life

According to the test results by both natural outdoor exposure and artificial weathering, KIWALITE Engineer Grade Reflective Sheeting #2600 Series can be expected to provide the effective performance life of 7 years except #2653 Orange color (for 3 years) under normal and vertical outdoor conditions. However, The effective performance life will depend upon substrate selection, preparation and compliance with recommended application procedures, exposure conditions and maintenance.

Solvent Inkiet Printability

KIWALITE Engineer Grade Reflective Sheeting #2600 Series has printability with solvent inkjet printer. Always pretest the sheeting with your printer and solvent inks to be used prior to application.

Storage and Shelf Life

KIWALITE Engineer Grade Reflective Sheeting #2600 Series should be stored in a cool, dry area, preferably at 15~30°C and 30~60%RH relative humidity, and should be used within one year from date of delivery.

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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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