



KIWALITE Engineer Grade 2000

Technical Bulletin

Description

enclosed reflective sheeting featuring excellent reflectivity and durability

Applicable Standard

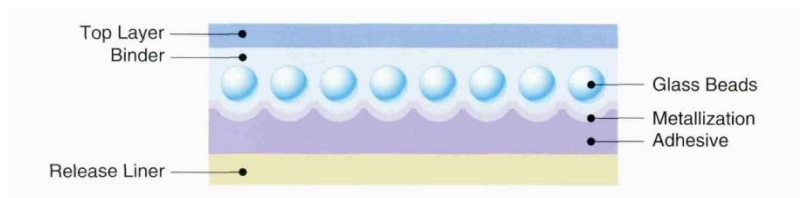
EN 12899 Class Ref 1, ASTM D-4956 Type I, DIN 67520 Type 1, AS/NZS 1906 Class 2

Application Range

perfect for any application requiring a quality reflective with excellent durability

Colors

white, yellow, orange, red, green, blue



Photometric Property

	Initial Value							
	D.A.	I.A.	White	Yellow	Orange	Red	Green	Blue
Reflectivity Intensity Value	0.2°	-4°	142.7	81.2	65.1	38.0	24.8	9.68
		+30°	73.6	38.4	29.5	18.5	10.6	4.39
		+40°	34.2	17.1	13.1	7.98	4.39	2.02
	0,33°	-4°	64.5	38.8	29.8	18.7	12.4	4.43
		+30°	44.3	24.5	18.1	12.1	6.79	2.63
		+40°	24.0	12.5	9.38	6.16	3.24	1.40
	2.0°	-4°	8.16	4.68	3.77	2.37	1.29	0.49
		+30°	7.37	4.14	3.23	2.04	1.16	0.41
		+40°	5.94	3.20	2.40	1.64	0.86	0.33
Chromaticity (Light source – D65)	Y		44.0	29.6	17.6	8.90	6.10	1.78
	x		0.307	0.506	0.591	0.650	0.120	0.147
	y		0.330	0.485	0.395	0.332	0.420	0.103
Specular Gloss	60° gloss		92.4	88.5	93.8	91.2	90.8	91.1

Accelerated Weathering Test

	Weather-O-Meter							
	D.A.	I.A.	White	Yellow	Orange	Red	Green	Blue
Reflectivity after 1000 h	0.2°	-4°	136.8	77.8	56.9	36.6	21.3	8.32
		+30°	70.4	36.7	22.9	17.8	9.11	3.77
		+40°	32.8	16.4	10.1	7.70	3.49	1.74
Chromaticity (Light source – D65)	Y		41.1	29.3	17.0	9.02	6.30	1.98
	x		0.313	0.503	0.582	0.622	0.132	0.153
	y		0.337	0.485	0.394	0.332	0.422	0.123





KIWA
CHEMICAL INDUSTRY CO.

TOGETHER FUTURE

Technical Data

Tensile strength		1.5 ± 0.5 kg/cm
Elongation		30% ~ 35%
Adhesion (90° peeling)		2.2 ± 0.5 mm
Solvent Resistance		
Kerosine	10 min	no effect
Turpentine	10 min	no effect
Toluol	1 min	no effect
Xylol	1 min	no effect
Methyl alcohol	1 min	no effect
Printability	KIWA KSP Ink	good
	KIWA KTF Ink	good
	Coates Ink	good
	Proell Ink	good

Please notice that substrates have to be free of dust and silicones, furthermore prints have to be completely cured, otherwise adhesion cannot be guaranteed. It is advisable to carry out some application tests to check the compatibility with different types of substrate. Please adhere to the manufacturer's application instructions.

All the technical information given herein are based on tests we have conducted, but the accuracy nor completeness is not guaranteed. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability.

